THE JOURNAL OF ENGINEERING EDUCATION

Published by THE SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION

NEW SERIES
VOL. XXIV., NO. 5 YEAR BOOK JANUARY, 1934

3 *new* McGRAW-HILL *books*

Higher Mathematics for Engineers and Physicists

By I. S. SOKOLNIKOFF, Assistant Professor of Mathematics, University of Wisconsin, and E. S. SOKOLNIKOFF, formerly Instructor in Mathematics, University of Wisconsin. *In press.*

This book contains an accurate introduction to those branches of higher mathematics which are most frequently encountered by the engineer in his practice. It represents what is probably the most thorough presentation of the range of topics in one volume in English. Many problems and exercises, typical of those met by the engineer, are included.

The Metallurgy of Iron and Steel. *New fourth edition*

By BRADLEY STOUGHTON, Professor of Metallurgical Engineering, Lehigh University. *In press.*

For a quarter century this well-known book has been a standard in the field. The new fourth edition presents a comprehensive, up-to-date discussion of the extraction of iron from its ores, its alteration to fit the varied needs of industry, and particularly the manufacture of steel, including the notable advances made during recent years.

Electrical Engineering Laboratory Experiments.

New third edition

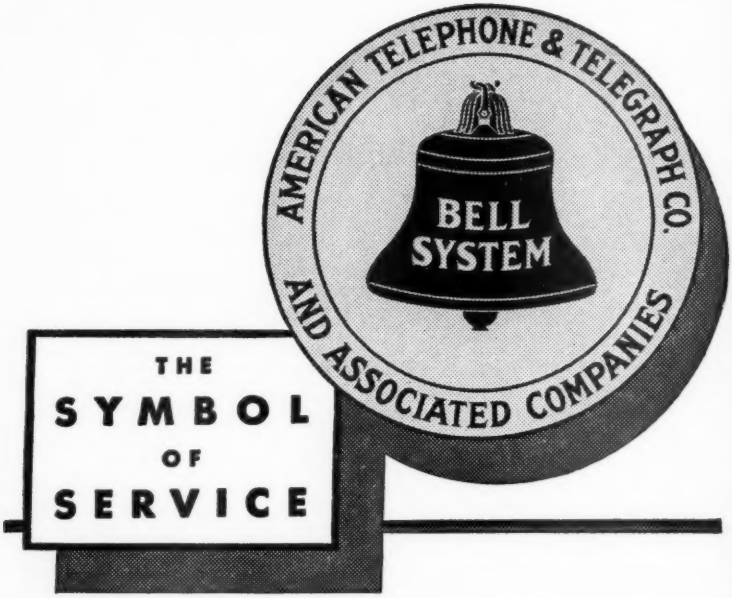
By C. W. RICKER, Professor of Electrical Engineering, Tulane University, and CARLTON E. TUCKER, Assistant Professor of Electrical Engineering, Massachusetts Institute of Technology. *In press.*

A thorough revision of this effective laboratory manual, incorporating such changes and improvements in each experiment as have been suggested during six years of use. A number of new sections have been added.

Send for copies on approval

McGRAW-HILL BOOK COMPANY, Inc.

330 West 42nd Street New York



WELL-KNOWN to millions of telephone users is the circular emblem of the Bell System. Back of it is the far-flung organization that enables you to talk to almost any one, at any time. It is the mark of a friendly service.

The Bell System consists of twenty-four regional companies, each attuned to the needs of the territory it serves. There is also the Bell Telephone Laboratories, working ceaselessly and scientifically to improve the scope and value of your telephone. There is the Western Electric Company, specializing in the economical production of telephone equipment of the highest quality. Coordinating and assisting the work of the operating companies, Bell Laboratories and Western Electric, is the American Telephone and Telegraph Company. It is owned largely by the people it serves and there are nearly 700,000 stockholders. They come from every walk of life and live in every state of the Union. Yet no one owns as much as one per cent of its stock.

Everything has been planned and organized for one specific purpose — to give you the best possible telephone service at the lowest possible cost.

A telephone serves you in many ways each day. It runs your errands; takes you to friends and brings them to you; speeds aid in sickness or emergency. It does these things and many more — for a few cents a day. The Business Office of your local Bell Telephone Company, or any employee, will gladly take your order.

BELL TELEPHONE SYSTEM

ec-
ne
It
ole
rly
ne
ve
Yet
er

ed
fic
est
he

ach
to
aid
ngs
The
one
ake

THE JOURNAL OF ENGINEERING EDUCATION

Published by the Society for the Promotion of Engineering Education

Published under the Supervision of the Publication Committee.
W. E. Wickenden, R. A. Seaton, F. L. Bishop, Editor, University of Pittsburgh.
Published at Prince and Lemon Sts., Lancaster, Pa.

Entered as second-class matter at the Post Office at Lancaster, Pa., under the Act of March 3, 1870.

New Series
Vol. XXIV, No. 5. JANUARY, 1934 Subscription Price, $3.00 per year. Single Copies, 50 cents.

TABLE OF CONTENTS.

PAGE

Organization of the Society, 1933–34
- Officers 2
- Council 2
- Board of Investigation and Coördination 3
- Divisions 4
- Sections and Branches 4
- Committees 6

Lamme Medal: Recipients 8

Members of the Society:
- Institutional 9
- Individual 15
  - Addresses Unknown 118
- Geographical Distribution 119
- Occupational Distribution 138
- Total Members, Past and Present 150

Meetings of the Society, 1893–1934 151

Summer Schools for Teachers of Engineering, 1927–1933 153

Officers, 1893–1934 154

Council Members, 1893–1934 156

Constitution 160

By-Laws and Rules 164

OFFICERS, COUNCIL MEMBERS, AND COMMITTEES OF THE SOCIETY FOR 1933–34.

COUNCIL.

OFFICERS 1933–34.

President.

W. E. WICKENDEN, Case School of Applied Science, Cleveland, Ohio.

Vice-Presidents.

F. V. LARKIN, Lehigh University, Bethlehem, Pa.
B. M. BRIGMAN, University of Louisville, Louisville, Ky.

Secretary.

F. L. BISHOP, University of Pittsburgh, Pittsburgh, Pa.

Treasurer.

W. O. WILEY, Jno. Wiley & Sons, Inc., New York City.

Assistant Secretary.

NELL MCKENRY, University of Pittsburgh, Pittsburgh, Pa.

COUNCIL.

I. Elective Members.

Terms Expire in 1934.

L. E. CONRAD, Kansas State College, Manhattan, Kansas.
A. M. DUDLEY, Westinghouse E. & M. Co., East Pittsburgh, Pa.
F. L. EIDMANN, Columbia University, New York City.
B. G. ELLIOTT, University of Wisconsin, Madison, Wis.
A. E. NORTON, Harvard University, Cambridge, Mass.
G. A. STETSON, A. S. M. E., 29 W. 39th St., New York City.
E. R. WILCOX, University of Washington, Seattle, Wash.

Terms Expire in 1935.

W. M. COBLEIGH, Montana State College, Bozeman, Mont.
H. B. DIRKS, Michigan State College, East Lansing, Mich.
F. E. JOHNSON, Iowa State College, Ames, Iowa.
MORLAND KING, Lafayette College, Easton, Pa.
C. W. PARK, University of Cincinnati, Cincinnati, Ohio.
A. P. POORMAN, Purdue University, Lafayette, Ind.
HARRY RUBEY, University of Missouri, Columbia, Mo.

Terms Expire in 1936.

F. E. AYER, University of Akron, Akron, Ohio.
K. T. COMPTON, Massachusetts Institute of Technology, Cambridge, Mass.
J. B. FINNEGAN, Armour Institute of Technology, Chicago, Ill.
W. N. GLADSON, University of Arkansas, Fayetteville, Ark.
B. R. VAN LEER, University of Florida, Gainesville, Fla.
H. B. WALKER, University of California, Davis, Calif.
C. H. WILLIS, Princeton University, Princeton, N. J.

II. Past Presidents—Members Ex-Officio.

C. FRANK ALLEN, 88 Montview St., West Roxbury, Mass.
D. C. JACKSON, Massachusetts Institute of Technology, Cambridge, Mass.
CHAS. S. HOWE, North Amherst, Mass.
F. E. TURNEAURE, University of Wisconsin, Madison, Wis.
A. N. TALBOT, University of Illinois, Urbana, Ill.
W. T. MAGRUDER, Ohio State University, Columbus, Ohio.
G. C. ANTHONY, 5 Circuit Road, New Rochelle, N. Y.
ANSON MARSTON, Iowa State College, Ames, Iowa.
HENRY S. JACOBY, 3000 Tilden St., N.W., Washington, D. C.
G. R. CHATBURN, 2850 P St., Lincoln, Nebr.
MILO S. KETCHUM, University of Illinois, Urbana, Ill.
ARTHUR M. GREENE, JR., Princeton University, Princeton, N. J.
MORTIMER E. COOLEY, Ann Arbor, Mich.
CHAS. F. SCOTT, Yale University, New Haven, Conn.
A. A. POTTER, Purdue University, Lafayette, Ind.
G. B. PEGRAM, Columbia University, New York City.
O. M. LELAND, University of Minnesota, Minneapolis, Minn.
R. L. SACKETT, Pennsylvania State College, State College, Pa.
D. S. KIMBALL, Cornell University, Ithaca, N. Y.
R. I. REES, 195 Broadway, New York, N. Y.
H. S. BOARDMAN, University of Maine, Orono, Me.
H. S. EVANS, University of Colorado, Boulder, Colo.
R. A. SEATON, Kansas State College, Manhattan, Kans.

BOARD OF INVESTIGATION AND COÖRDINATION.

JACKSON, D. C., Professor of Electrical Engineering, Massachusetts Institute of Technology.
DEXTER S. KIMBALL, Dean, College of Engineering, Cornell University.
R. L. SACKETT, Dean, School of Engineering, The Pennsylvania State College.
F. E. TURNEAURE, Dean, College of Engineering, University of Wisconsin.
SCOTT, C. F., *Chairman*, Professor of Electrical Engineering, Sheffield Scientific School, Yale University.
F. L. BISHOP, *Secretary*, Professor of Physics, University of Pittsburgh.

W. E. WICKENDEN, *President*, Case School of Applied Science, Cleveland, Ohio.

H. P. HAMMOND, Director, Summer Schools for Engineering Teachers, 99 Livingston St., Brooklyn, N. Y.

DIVISIONS OF THE SOCIETY.

Coöperative Engineering Education.

Executive Committee.

J. E. MCDANIEL, *Chairman*, Georgia School of Technology, Atlanta, Ga.
W. H. TIMBIE, R. C. DISQUE,
C. W. PARK.

Engineering Drawing.

Executive Committee.

H. M. MCCULLY, *Chairman*, Carnegie Inst. of Tech., Pittsburgh, Pa.
JUSTUS RISING, *Secretary*, Purdue University, Lafayette, Ind.
W. E. FARNHAM, C. L. SVENSEN.
CLAIR V. MANN, E. F. TOZER,
F. M. WARNER.

Mechanics.

Executive Committee.

A. E. NORTON, *Chairman*, Harvard University, Cambridge, Mass.
Z. R. BLISS, S. B. FOLK,
H. D. CHURCHILL, N. C. RIGGS, *Secretary*
W. R. CORNELL, F. B. SEELEY,
LEROY TUCKER.

SECTIONS AND BRANCHES.

Arkansas-Oklahoma Section:

R. L. Flanders, Okla. A. & M., *President.*
R. E. Means, Okla. A. & M., *Vice-President.*
C. T. Almquist, Univ. of Okla., *Vice-President.*
W. B. Stelzner, Univ. of Ark., *Vice-President.*
C. M. Leonard, Okla. A. & M., *Secretary.*

Case Branch:

M. S. Douglas, *President.*
A. A. Bates, *Vice-President.*
W. E. Nudd, *Secretary.*
F. H. Vose, } *Advisory Committee.*
C. F. Prutton, }

Colorado School of Mines Branch:

I. A. Palmer, *President.*
J. C. Fitterer, *Vice-President.*
G. W. Salzer, *Secretary.*

Colorado-Wyoming Section:

J. R. Morgan, Colo. School of Mines, *President.*
L. D. Crain, Colo. Agri. College, *Vice-President.*
E. O. Bergman, Univ. of Colo., *Secretary.*

Georgia School of Technology Branch:

Newton C. Ebaugh, *President.*
A. D. Holland, *Secretary.*

Kansas-Nebraska Section:

E. E. Brackett, Univ. of Nebr., *President.*
A. A. Sluss, Univ. of Kansas, *Secretary.*
M. W. Furr, Kansas State College, *Chairman,*
L. A. Bingham, Univ. of Nebr.,
D. D. Haines, Univ. of Kansas,
} *Program Committee.*

Kentucky Section:

C. S. Crouse, Univ. of Ky., *President.*
H. H. Fenwick, Univ. of Louisville, *Vice-President.*
L. E. Nollau, Univ. of Ky., *Secretary-Treasurer.*

Lafayette Branch:

Morland King, *Chairman.*
Wm. S. Lohr, *Vice-Chairman.*
E. H. Rockwell, *Secretary-Treasurer.*

Maine Branch:

Warren H. Bliss, *Chairman.*
Irving H. Prageman, *Secretary.*

Middle Atlantic Section:

A. R. Cullimore, Newark College of Eng., *Chairman.*
C. G. Thatcher, Swarthmore College, *Secretary.*

Minnesota Section:

Elmer W. Johnson, *President.*
Lorenz G. Straub, *Secretary-Treasurer.*
Ralph E. Montanna, *Chairman, Program Committee.*

Missouri Section:

E. J. McCaustland, Univ. of Mo., *President.*
Joe B. Butler, Mo. School of Mines, *Vice-President.*
F. A. Berger, Wash. Univ., *Secretary.*

Newark College of Engineering Branch:

F. N. Entwisle, *Chairman.*
H. N. Cummings, *Vice-Chairman.*
P. E. Schweizer, *Secretary.*

New England Section:

James A. Hall, Brown Univ., *Chairman.*
F. W. Garran, Dartmouth Univ., *Secretary.*

North Carolina State College Branch:

L. L. Vaughan, *Chairman.*
R. S. Fouraker, *Vice-Chairman.*
H. L. Mock, *Secretary.*

Ohio Section:

S. B. Folk, Ohio State Univ., *Chairman.*
F. L. Plummer, Case School, *Vice-Chairman.*
B. T. Schad, Univ. of Dayton, *Vice-Chairman.*
S. A. Harbarger, Ohio State Univ., *Secretary.*

Pacific Northwest Section:

R. D. Sloan, Wash. State College, *Chairman.*
J. E. Buchanan, Univ. of Idaho, *Vice-Chairman.*
E. R. Wilcox, Univ. of Wash., *Secretary.*

Pacific Southwest Section:

D. M. Wilson, Univ. of So. Calif., *Chairman.*
A. B. Domonoske, Stanford Univ., *Vice-Chairman.*
F. O. Rose, Modesto Jr. College, *Secretary-Treasurer.*
A. G. Gehrig, Pasadena Jr. College,
H. R. Kepner, Utah State Agri. College,
H. B. Langille, Univ. of Calif.,
F. H. Sibley, Univ. of Nevada,
} *Executive Committee.*

Pennsylvania State College Branch:

L. S. Rhodes, *President.*
A. E. Neyhart, *Vice-President.*
A. P. Powell, *Secretary-Treasurer.*

Purdue Branch:

Justus Rising, *President.*
W. I. Freel, *Secretary.*

South Dakota Section:

H. E. Brookman, Univ. of S. D., *President.*
W. H. Gamble, S. D. State College, *Vice-President.*
Carl G. Watson, S. D. School of Mines, *Secretary-Treasurer.*

Texas Section:

T. U. Taylor, Univ. of Texas, *President.*
E. H. Flath, S. M. U., *Vice-President.*
H. F. Huffman, S. M. U., *Secretary.*
J. J. Richey, Texas A. & M.,
J. W. Ramsay, Univ. of Texas,
J. H. Pound, Rice Inst.,
R. D. Campbell, S. M. U.,
O. V. Adams, Tech. Coll.,
A. W. Straiton, C. A. & I.,
F. M. Smith, N. T. A. C.,
H. C. Doremus, Tarleton C.,
J. W. Kidd, School of Mines,
} *Executive Committee.*

COMMITTEES.

In order that the work of the Society may be continuous and progressive, a large part of it is conducted by committees. Members having matters they desire to take up with any chairman are invited to correspond directly with him.

Executive Committee: W. E. Wickenden, Case School of Applied Science, Cleveland, Ohio; F. L. Bishop and W. O. Wiley.

Publication Committee: F. L. Bishop, *Chairman*, University of Pittsburgh; W. E. Wickenden and R. A. Seaton.

Program Committee: W. E. Wickenden, *Chairman*, F. V. Larkin, B. M. Brigman, F. L. Bishop and W. O. Wiley.

Relations with Engineering Societies: R. I. Rees, *Chairman*, 195 Broadway, New York City; D. C. Jackson, A. H. White, A. H. Fuller, W. B. Plank, F. L. Bishop.

Relations with Industrial and Trade Associations: E. B. Norris, *Chairman*, Virginia Polytechnic Institute, Blacksburg, Va.; E. A. Holbrook, W. A. Shoudy, M. A. Lee, J. B. Finnegan, C. J. Freund.

Summer Schools for Engineering Teachers: R. A. Seaton, *Chairman*, Kansas State College, Manhattan, Kans.; E. B. Roberts, R. G. Tyler, G. W. Munro, T. F. Hickerson, F. G. Higbee. H. P. Hammond, Consulting Member.

Engineering Research: C. F. Harding, *Chairman*, Purdue University, Lafayette, Ind.; S. M. Woodward, W. O. Hotchkiss, C. H. Berry, T. H. Morgan, C. B. Veal.

Graduate Study: H. P. Hammond, *Chairman*, Brooklyn Polytechnic Institute, Brooklyn, N. Y.; D. S. Kimball, Parke Kolbe, Geo. B. Thomas, Thorndike Saville, C. E. Tucker, Edward Bennett, T. R. Agg.

Titles of College Degrees in Engineering: O. M. Leland, *Chairman*, University of Minnesota, Minneapolis, Minn.; S. B. Earle, Louis Mitchell, G. C. Shaad, F. E. Ayer, G. W. Case.

Orientation of Freshmen: F. C. Dana, *Chairman*, Iowa State College, Ames, Iowa; E. R. Wilcox, C. V. Mann, D. S. Anderson, A. V. Millar, W. D. Turnbull.

Comprehensive Examinations: J. W. Barker, *Chairman*, Columbia University, New York City; Johnson O'Connor, W. H. Timbie, J. E. Walters, C. V. Mann, Ben Wood.

Junior Colleges: R. A. White, *Chairman*, Grand Rapids Junior College, Grand Rapids, Mich.; F. O. Rose, A. C. Gough, A. G. Gehrig, F. C. Bolton, H. H. Jordan.

Technical Institutes: W. B. Russell, *Chairman*, Franklin Union, Boston, Mass.; J. A. Randall, J. T. Faig, F. E. Dobbs, W. H. Timbie, C. M. Jansky.

Instructional Standards: H. S. Rogers, *Chairman*, Brooklyn Polytechnic Institute of Technology, Brooklyn, N. Y.; H. P. Hammond, W. C. John, Morland King, H. H. Jordan, T. M. Focke.

Sections and Branches: C. G. Thatcher, *Chairman*, Swarthmore College, Swarthmore, Pa.; I. H. Lovett, H. B. Langille, W. M. Cobleigh, Floyd Field, S. B. Folk.

Mathematics: H. L. Rietz, *Chairman*, University of Iowa, Iowa City, Iowa; Louis O'Shaughnessy, H. W. March, J. H. Weaver, T. C. Fry, W. J. Berry.

English: Sada A. Harbarger, *Chairman*, Ohio State University, Columbus, Ohio; W. O. Birk, J. R. Nelson, H. L. Creek, A. V. Hall, J. L. Vaughan, A. C. Howell, W. F. Scamman, C. F. De La Barre.

Civil Engineering: L. E. Conrad, *Chairman*, Kansas State College, Manhattan, Kansas; Frank Kerekes, I. C. Crawford, F. L. Plummer, B. R. Van Leer, D. B. Steinman.

Electrical Engineering: F. E. Johnson, *Chairman*, Iowa State College, Ames, Iowa; A. C. Stevens, H. L. Bibber, E. A. Bureau, M. S. Coover, P. S. Biegler.

Industrial Engineering: P. T. Norton, *Chairman,* Virginia Polytechnic Institute, Blacksburg, Va.; C. E. Bullinger, E. L. Grant, E. D. Hay, E. D. Smith, R. M. Barnes.

Mechanical Engineering: B. G. Elliott, *Chairman,* University of Wisconsin, Madison, Wis.; H. B. Dirks, J. J. Wilmore, F. W. Marquis, A. B. Domonoske, F. L. Eidmann.

Length of Engineering Curriculum: R. E. Doherty, *Chairman,* Yale University, New Haven, Conn.; H. C. Sadler, G. M. Butler, D. B. Prentice, V. M. Faires, R. P. Baker.

REPRESENTATIVES OF THE SOCIETY ON VARIOUS COMMITTEES, BOARDS AND COMMISSIONS.

American Standards Association:

Symbols and Abbreviations: S. A. Moss, General Electric Company, West Lynn, Mass., P. J. Keifer, and M. C. Stuart.

Preferred Numbers: C. E. Lucke, Columbia University, New York City.

Standards for Drawings and Drafting Room Practice, sponsored by S. P. E. E. and A. S. M. E.: T. E. French, Ohio State University, Columbus, Ohio.

Standardization of Graphical Presentation: Sectional Committee: T. E. French, Ohio State University, Columbus, Ohio.

American Standard Electrical Definitions, sponsored by A. I. E. E.: A. E. Kennelly, Harvard University, Cambridge, Mass.

Charles A. Coffin Fellowships and Research Committee: W. E. Wickenden, Case School of Applied Science, Cleveland, Ohio.

American Council on Education: F. L. Bishop, H. S. Jacoby and L. W. Wallace.

American Engineering Council: F. L. Bishop, University of Pittsburgh, Pittsburgh, Pa.

American Association for the Advancement of Science: D. C. Jackson, Mass. Inst. of Tech., Cambridge, Mass., and A. A. Potter, Purdue University, Lafayette, Ind.

Advisory Committee, Engineering Index Service, A. S. M. E.: W. O Wiley, 440 Fourth Avenue, New York City.

RECIPIENTS OF LAMME MEDAL.

1928—GEORGE FILLMORE SWAIN, Professor of Civil Engineering, Harvard University.

1929—IRVING PORTER CHURCH, Emeritus Professor of Applied Mechanics and Hydraulics, Cornell University.

1930—CHARLES FELTON SCOTT, Professor of Electrical Engineering, Yale University.

1931—DUGALD CALEB JACKSON, Professor of Electric Power Production and Distribution, in charge, Dept., Electrical Engineering, Massachusetts Institute of Technology.

1932—ARTHUR NEWELL TALBOT, Professor of Municipal and Sanitary Engineering, Emeritus, University of Illinois.

1933—DEXTER SIMPSON KIMBALL, Professor of Industrial Engineering, Dean, College of Engineering, Cornell University.

LIST OF INSTITUTIONAL MEMBERS.*

UNIVERSITY OF AKRON, College of Engineering, Akron, O., *F. E. Ayer, Dean and Representative* 1914

ALABAMA POLYTECHNIC INSTITUTE, Auburn, Ala., Bradford Knapp, President, Jno. J. Wilmore, Dean 1914

UNIVERSITY OF ALABAMA, College of Engineering, University, Ala., George H. Denny, President, Geo. J. Davis, *Dean and Representative* 1923

UNIVERSITY OF ALBERTA, Faculty of Applied Science, Edmonton, Alberta, Canada, *E. S. L. Wilson, Dean and Representative* .. 1924

UNIVERSITY OF ARIZONA, Tucson, Ariz., H. L. Shantz, President, *G. M. Butler, Dean and Representative* 1914

UNIVERSITY OF ARKANSAS, Fayetteville, Ark., John C. Futrall, President, *W. N. Gladson, Dean and Representative* 1921

ARMOUR INSTITUTE OF TECHNOLOGY, Chicago, Ill., W. E. Hotchkiss, President, John C. Penn, Dean, *Jos. B. Finnegan, Representative* 1921

POLYTECHNIC INSTITUTE OF BROOKLYN, Brooklyn, N. Y., H. S. Rogers, President, *E. J. Streubel, Dean and Representative*... 1921

BROWN UNIVERSITY, Providence, R. I., Clarence A. Barbour, President, *W. H. Kenerson, Chairman and Representative* 1914

BUCKNELL UNIVERSITY, Lewisburg, Pa., Emory W. Hunt, President, Dean Rivenburg, *F. E. Burpee, Representative* 1925

UNIVERSITY OF CALIFORNIA, Berkeley, Calif., Robert P. Sproul, President 1913

CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena, Calif., Robert A. Millikan, Chairman, Executive Council; F. W. Hinrichs, Jr., Dean, Upper Classmen; John R. Macarthur, Dean of Freshmen; *Franklin Thomas, Representative* 1913

CARNEGIE INSTITUTE OF TECHNOLOGY, Pittsburgh, Pa., Thomas S. Baker, President, *W. N. Jones, Director and Representative*.. 1915

CASE SCHOOL OF APPLIED SCIENCE, Cleveland, O., Wm. E. Wickenden, President, *T. M. Focke, Dean and Representative* 1913

CATHOLIC UNIVERSITY OF AMERICA, Washington, D. C., James H. Ryan, Rector, Hardee Chambliss, Dean, *G. A. Weschler, Representative* 1917

UNIVERSITY OF CINCINNATI, Cincinnati, O., Raymond Walters, President, Herman Schneider, Dean, *R. S. Tour, Representative* 1917

* The names in italics are the representatives of the Society in their respective institutions and members of the Institutional Division for the year 1933–34.

THE CITADEL, The Military College of South Carolina, Charleston, S. C., O. J. Bond, President, *L. S. LeTellier, Dean and Representative* 1914

CLEMSON COLLEGE, Clemson College, S. C., E. W. Sikes, President, *S. B. Earle, Director and Representative* 1913

COLORADO SCHOOL OF MINES, Golden, Colo., *Melville F. Coolbaugh, President and Representative,* Jesse R. Morgan, Dean 1929

UNIVERSITY OF COLORADO, Boulder, Colo., George Norlin, President, *H. S. Evans, Dean and Representative* 1915

COLORADO AGRICULTURAL COLLEGE, Fort Collins, Colo., Chas. A. Lory, President, *L. D. Crain, Chairman and Representative* 1923

COLUMBIA UNIVERSITY, New York City, N. M. Butler, President, *Joseph W. Barker, Dean and Representative* 1923

THE COOPER UNION, New York City, R. Fulton Cutting, President, G. F. Bateman, *Dean and Representative* 1927

CORNELL UNIVERSITY, Ithaca, N. Y., Livingston Farrand, President, *D. S. Kimball, Dean and Representative* 1913

UNIVERSITY OF DAYTON, Dayton, Ohio, B. P. O'Reilly, President, Adam G. Hoffman, Dean, *B. T. Schad, Representative* 1929

UNIVERSITY OF DELAWARE, Newark, Del., Walter Hullihen, President, *R. L. Spencer, Dean and Representative* 1916

UNIVERSITY OF DETROIT, Detroit, Mich., John P. Morrissey, Regent, E. J. Freund, *Dean and Representative* 1924

DREXEL INSTITUTE, Philadelphia, Pa., Parke R. Kolbe, President, *R. C. Disque, Dean and Representative* 1914

DUKE UNIVERSITY, TRINITY COLLEGE, Durham, N. C., Wm. P. Few, President, W. H. Wannamaker, *H. C. Bird, Representative*... 1932

ECOLE POLYTECHNIQUE, Montreal, Canada, Aurélien Boyer, President, *Augustin Frigon, Dean and Representative* 1917

ENGINEERING INSTITUTE OF CANADA, THE, 2050 Mansfield Street, Montreal, Canada, R. J. Durley, Secretary 1924

UNIVERSITY OF FLORIDA, Gainesville, Fla., John J. Tigert, President, *P. L. Reed, Acting Dean, Thos. M. Lowe, Representative* 1928

THE GEORGE WASHINGTON UNIVERSITY, Washington, D. C., Cloyd Heck Marvin, President, *J. R. Lapham, Dean and Representative* 1913

GEORGIA SCHOOL OF TECHNOLOGY, Atlanta, Ga., M. L. Brittain, President, W. V. Skiles, Dean, *Floyd Field, Representative* .. 1913

THE HARVARD ENGINEERING SCHOOL, HARVARD UNIVERSITY, Cambridge, Mass., James Bryant Conant, President, *Harry E. Clifford, Dean and Representative* 1919

THE UNIVERSITY OF HAWAII, Honolulu, T. H., David L. Crawford, President, *A. R. Keller, Dean and Representative* 1923

UNIVERSITY OF IDAHO, Moscow, Idaho, M. G. Neale, President, *Ivan C. Crawford, Dean and Representative* 1924

UNIVERSITY OF ILLINOIS, Urbana, Ill., Arthur H. Daniel, Acting President, *A. C. Willard, Acting Dean and Representative*... 1914

IOWA STATE COLLEGE, Ames, Ia., R. M. Hughes, President, Anson Marston, Dean, *T. R. Agg, Representative* 1913

STATE UNIVERSITY OF IOWA, Iowa City, Ia., Walter A. Jessup, President, *C. C. Williams, Dean and Representative* 1914

JOHN B. STETSON UNIVERSITY, College of Engineering, DeLand, Fla., Lincoln Hulley, President, *Robt. I. Allen, Representative* 1923

JOHNS HOPKINS UNIVERSITY, Baltimore, Md., Joseph S. Ames, President, J. B. Whitehead, Dean, *A. G. Christie, Representative* 1921

KANSAS STATE COLLEGE OF AGRICULTURE AND APPLIED SCIENCES, Manhattan, Kans., F. D. Farrell, President, *R. A. Seaton, Dean and Representative* 1917

THE UNIVERSITY OF KANSAS, Lawrence, Kans., Earnest H. Lindley, Chancellor, *George C. Shaad, Dean and Representative* 1914

UNIVERSITY OF KENTUCKY, Lexington, Ky., Frank L. McVey, President, *F. Paul Anderson, Dean and Representative* 1925

LAFAYETTE COLLEGE, Easton, Pa., William Mather Lewis, President, *Morland King, Representative* 1915

LEHIGH UNIVERSITY, Bethlehem, Pa., C. R. Richards, President.. 1914

McGILL UNIVERSITY, Montreal, Canada, *C. M. McKergow, Representative* 1924

UNIVERSITY OF MAINE, Orono, Me., H. S. Boardman, President, *Paul Cloke, Dean and Representative* 1917

MARQUETTE UNIVERSITY, Milwaukee, Wis., Wm. M. Magee, President, *F. A. Kartak, Dean and Representative* 1919

UNIVERSITY OF MARYLAND, College Park, Md., Raymond A. Pearson, President, *A. N. Johnson, Dean and Representative* 1923

MANHATTAN COLLEGE, New York City, Rev. Bro. A. Patrick, President, *Rev. Bro. A. Leo, Dean and Representative* 1933

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Cambridge, Mass., K. T. Compton, President, *F. A. Magoun, Representative*.... 1918

MICHIGAN COLLEGE OF MINING AND TECHNOLOGY, Houghton, Mich., W. O. Hotchkiss, President, *G. W. Swenson, Representative*.. 1914

MICHIGAN STATE COLLEGE, East Lansing, Mich., R. S. Shaw, President, H. B. Dirks, *Dean and Representative* 1933

UNIVERSITY OF MICHIGAN, Ann Arbor, Mich., Alex. G. Ruthven, President, *H. C. Sadler, Dean and Representative* 1913

UNIVERSITY OF MINNESOTA, Minneapolis, Minn., Lotus D. Coffman, President, *O. M. Leland, Dean and Representative* 1919

UNIVERSITY OF MISSOURI, Columbia, Mo., Walter Williams, President, E. J. McCaustland, Dean, *H. K. Rubey, Representative* 1914

MISSOURI SCHOOL OF MINES AND METALLURGY, Rolla, Mo., Walter Williams, President, Charles H. Fulton, Director, *Clair V. Mann, Representative* 1925

MONTANA STATE COLLEGE, Bozeman, Mont., Alfred Atkinson, President, *W. M. Cobleigh, Dean and Representative* 1923

MOORE SCHOOL OF ELECTRICAL ENGINEERING, University of Pennsylvania, Philadelphia, Pa., Thos. S. Gates, President, *Harold Pender, Dean and Representative* 1930

UNIVERSITY OF NEBRASKA, Lincoln, Nebr., E. A. Burnett, Chancellor, *O. J. Ferguson, Dean and Representative* 1914

COLLEGE OF ENGINEERING, Newark, N. J., Allan R. Cullimore, President, James A. Bradley, Dean, and *A. R. Cullimore, Representative* 1922

UNIVERSITY OF NEW BRUNSWICK, Fredericton, N. B., Cecil C. Jones, President, John Stephens, Dean 1923

UNIVERSITY OF NEW HAMPSHIRE, Durham, N. H., Edward M. Lewis, President, *G. W. Case, Dean and Representative* 1923

NEW MEXICO COLLEGE OF A. & M. ARTS, State College, N. Mex., H. L. Kent, President, *James T. Rood, Dean and Representative* 1917

NEW MEXICO SCHOOL OF MINES, Socorro, N. Mex., *E. H. Wells, President and Representative* 1923

NEW YORK UNIVERSITY, New York, N. Y., Harry W. Chase, Chancellor, Collins P. Bliss, Dean, *David B. Porter, Representative* 1913

UNIVERSITY OF NORTH CAROLINA, Chapel Hill, N. C., Frank P. Graham, President, *H. G. Baity, Dean and Representative* 1917

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING, State College Station, Raleigh, N. C., Eugene C. Brooks, President, *W. C. Riddick, Dean and Representative* 1920

NORTH DAKOTA AGRICULTURAL COLLEGE, Agricultural College, N. D., J. H. Shepperd, President, *R. M. Dolve, Dean and Representative* 1924

NORTH DAKOTA, UNIVERSITY OF, University Station, Grand Forks, N. D., Thos. F. Kane, President, *L. C. Harrington, Acting Dean and Representative* 1913

NORTHEASTERN UNIVERSITY, School of Engineering, Boston, Mass., Frank P. Speare, President, *Carl S. Ell, Dean and Representative* 1921

OHIO NORTHERN UNIVERSITY, Ada, Ohio, A. E. Smith, President. 1923

OHIO STATE UNIVERSITY, THE, Columbus. O., George W. Rightmire, President, E. A. Hitchcock, Dean, *Thos. E. French, Representative* 1921

STATE UNIVERSITY OF OKLAHOMA, Norman, Okla., Wm. B. Bizzell, President, *J. H. Felgar, Dean and Representative* 1913

OKLAHOMA A. & M. COLLEGE, Stillwater, Okla., Henry G. Bennett, President, *Philip S. Donnell, Dean and Representative* 1933

OREGON AGRICULTURAL COLLEGE, Corvallis, Ore., W. J. Kerr, President, ... *Dean and Representative* 1917

THE PENNSYLVANIA STATE COLLEGE, State College, Pa., R. D. Het-

zel, President, *R. L. Sackett, Dean and Representative* 1914

TOWNE SCIENTIFIC SCHOOL, UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pa., Thos. S. Gates, President, *R. H. Fernald, Dean and Representative* 1914

UNIVERSITY OF PITTSBURGH, Pittsburgh, Pa., John G. Bowman, Chancellor, *E. A. Holbrook, Dean and Representative* 1913

UNIVERSITY OF PORTO RICO, San Juan, P. R., Gildo Massó, Chancellor, C. A. Figueroa, Dean, *Jose D. Morales, Representative* 1920

PRINCETON UNIVERSITY, Princeton, N. J., Edward Dickinson Duffield, Acting President, *Arthur M. Greene, Jr., Dean and Representative* 1922

PURDUE UNIVERSITY, Lafayette, Ind., Edward Charles Elliott, President, *A. A. Potter, Dean and Representative* 1915

QUEEN'S UNIVERSITY, Kingston Ont., Canada, Wm. Hamilton Fyfe, Principal, *A. L. Clark, Dean and Representative* 1922

RENSSELAER POLYTECHNIC INSTITUTE, Troy, N. Y., *Palmer C. Ricketts, Director and Representative* 1922

RHODE ISLAND STATE COLLEGE, Kingston, R. I., John Barlow, Acting President, *Royal L. Wales, Dean and Representative* 1913

RICE INSTITUTE, Houston, Tex., Edgar Odell Lovett, President, *H. F. Humphrey, Representative* 1924

ROSE POLYTECHNIC INSTITUTE, Terre Haute, Ind., D. B. Prentice, *President and Representative* 1916

ROYAL MILITARY COLLEGE, Kingston, Canada, W. H. Elkins, Commandant, *E. J. Schmidlin, Dean and Representative* 1924

RUTGERS COLLEGE, New Brunswick, N. J., Robt. C. Clothier, President, *P. H. Daggett, Dean and Representative* 1914

SOUTH DAKOTA STATE COLLEGE OF A. & M. ARTS, Brookings, S. D. Charles W. Pugsley, President, *H. M. Crothers, Dean and Representative* 1924

SOUTH DAKOTA STATE SCHOOL OF MINES, Rapid City, S. D., C. C. O'Hara, President, *Carl G. Watson, Representative* 1926

SOUTHERN METHODIST UNIVERSITY, Dallas, Texas, C. C. Selecman, President, *E. H. Flath, Dean and Representative* 1929

SPEED SCIENTIFIC SCHOOL OF UNIVERSITY OF LOUISVILLE, Louisville, Ky., Raymond A. Kent, President, *B. M. Brigman, Dean and Representative* 1925

STANFORD UNIVERSITY, Stanford University, Calif., *T. J. Hoover, Dean and Representative* 1917

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, N. J., Harvey N. Davis, President, Franklin DeR. Furman, Dean, *Wm. R. Halliday, Representative* 1913

SWARTHMORE COLLEGE, Swarthmore, Pa., Frank Aydelotte, President, *C. G. Thatcher, Representative* 1921

SYRACUSE UNIVERSITY, Syracuse, N. Y., Charles W. Flint, Chancellor, *Louis Mitchell, Dean and Representative* 1913

TENNESSEE UNIVERSITY, Knoxville, Tenn., Harcourt A. Morgan, President, *C. E. Ferris, Dean and Representative* 1921

A. & M. COLLEGE OF TEXAS, College Station, Tex., Thomas O. Walton, President, *F. C. Bolton, Dean and Representative* 1916

TEXAS TECHNOLOGICAL COLLEGE, Lubbock, Tex., Paul W. Horn, President, O. V. Adams, Acting Dean 1931

UNIVERSITY OF TEXAS, Austin, Tex., H. Y. Benedict, President, *T. U. Taylor, Dean and Representative* 1919

TOLEDO, UNIVERSITY OF THE CITY OF, Toledo, O., Philip C. Nash, President, *I. F. Zarobsky, Representative* 1915

UNIVERSITY OF TORONTO, Toronto, Ont., Canada, Canon Coty, President, C. H. Mitchell, Dean, *Albert L. Laing, Representative* 1917

TULANE UNIVERSITY OF LOUISIANA, New Orleans, La., Albert B. Dinwiddie, President, *D. S. Anderson, Dean and Representative* 1921

TUFTS COLLEGE, Tufts College, Mass., John Albert Cousens, President, *Geo. P. Bacon, Dean and Representative* 1914

UNIVERSITY OF UTAH, Salt Lake City, Utah, George Thomas, President, *R. B. Ketchum, Dean and Representative* 1914

VANDERBILT UNIVERSITY, Nashville, Tenn., J. H. Kirkland, Chancellor, *F. J. Lewis, Acting Dean and Representative* 1914

UNIVERSITY OF VERMONT, Burlington, Vt., Guy W. Bailey, President, *G. F. Eckhardt, Dean and Representative* 1915

VILLANOVA COLLEGE, Villanova, Pa., E. V. Stanford, President, *C. T. Humphrey, Dean and Representative* 1921

VIRGINIA POLYTECHNIC INSTITUTE, Blacksburg, Va., Julian A. Burruss, President, *E. B. Norris, Dean and Representative* .. 1924

UNIVERSITY OF VIRGINIA, University, Va., J. L. Newcomb, Acting President, *W. S. Rodman, Acting Dean and Representative*.. 1915

WASHINGTON UNIVERSITY, St. Louis, Mo., George R. Throop, Chancellor, *A. S. Langsdorf, Dean and Representative* 1914

WASHINGTON AND LEE UNIVERSITY, Lexington, Va., Francis P. Gaines, President, James L. Howe, Dean, *W. T. Lyle, Representative* 1924

STATE COLLEGE OF WASHINGTON, Pullman, Wash., E. O. Holland, President, *H. V. Carpenter, Dean and Representative* 1924

WESTINGHOUSE TECHNICAL NIGHT SCHOOL, East Pittsburgh, Pa., R. A. McPherson, Manager 1924

UNIVERSITY OF WISCONSIN, Madison, Wis., Glenn Frank, President, *F. E. Turneaure, Dean and Representative* 1914

WORCESTER POLYTECHNIC INSTITUTE, Worcester, Mass., Ralph Earle, President, *Theo. H. Morgan, Representative* 1913

UNIVERSITY OF WYOMING, Laramie, Wyo., A. G. Crane, President. 1925

YALE SCHOOL OF ENGINEERING, Yale University, New Haven, Conn., James R. Angell, President, R. E. Doherty, Dean, *Chas. F. Scott, Representative* 1917

Total Institutional Members 121

LIST OF INDIVIDUAL MEMBERS.

Revised to January 27, 1934.

AAKHUS, THEODORE, Instructor in Drawing and Machine Design, University of Nebraska, Lincoln, Neb. 1933

ABBOTT, RAYMOND B., Associate Professor of Physics, Purdue University, Lafayette, Ind. 1928

ABBOTT, ROBINSON, Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1919

ABBOTT, THOS. A., Assistant Head, Standardizing Laboratory, General Electric Co., West Lynn, Mass. 1928

ADAMS, ARTHUR S., Associate Professor of Mechanics, Colorado School of Mines, Golden, Colo. 1931

ADAMS, COMFORT, A., Abbott and James Lawrence Professor of Engineering, Harvard Engineering School, Cambridge, Mass. 1894

ADAMS, FRANCIS J., Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1912

ADAMS, OTTO V., Associate Professor of Civil Engineering, Texas Technological College, Lubbock, Texas 1930

ADAMS, THOMAS C., Associate Professor of Civil Engineering, University of Utah, Salt Lake City, Utah 1930

AGG, THOMAS R., Assistant Dean, Director of Engineering, Professor of Highway Engineering, Iowa State College, Ames, Iowa 1923

AHLQUIST, ROBERT W., Instructor in Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1929

AITKENHEAD, WM., Professor of Agricultural Engineering, Purdue University, Lafayette, Ind. 1924

AKELEY, L. E., Emeritus Professor of Physics, University of South Dakota, Vermillion, S. D. (*Member of Council, 1930–33.*) .. 1910

AKERMAN, JOHN D., Professor and Head, Department of Aeronautical Engineering, University of Minnesota, Minneapolis, Minn. 1931

ALBERT, ARTHUR L., Assistant Professor of Electrical Engineering, Oregon Agricultural College, Corvallis, Ore. 1929

ALBRIGHT, PENROSE S., Assistant Professor of Physics and Chemistry, Southwestern College, Winfield, Kans. 1932

ALDRICH, BENJAMIN M., Instructor in Mechanical Engineering, South Dakota State College, Brookings, S. D. 1932

ALDRICH, WM. S., Retired, 137 Buckingham Ave., Syracuse, N. Y. 1893

ALEXANDER, WILLIAM T., Instructor in Mechanical Engineering, Northeastern University, Boston, Mass. 1929

ALFORD, LEON P., Vice President, Ronald Press Company, 15 East 26th Street, New York, N. Y. 1928

ALGER, PHILIP L., Engineering General, General Electric Company, Schenectady, N. Y. 1925

ALGREN, AXEL B., Assistant Director, Experimental Engineering Laboratories, Instructor in Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1929

ALLEN, C. FRANK, Retired, 88 Montview St., West Roxbury, Mass. (*President, 1903–4; Secretary, 1895–7; Vice President, 1898–9; Member of Council since 1895.*) 1893

ALLEN, CHARLES L., Assistant Professor of Mechanical Engineering, The Pennsylvania State College, State College, Pa..... 1928

ALLEN, CHESTER, Professor and Head, Dept. of Civil Engineering, Michigan State College, East Lansing, Mich. 1917

ALLEN, C. M., Professor of Hydraulic Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1903

ALLEN, F. G., Professor of General Engineering Drawing, University of Colorado, Boulder, Colo. 1913

ALLEN, LOUIS N., JR. 1933

ALLISON, WILLIAM H., Assistant Professor of Civil Engineering, Clarkson College of Technology, Potsdam, N. Y. 1928

ALVORD, HENRY B., Professor of Civil Engineering, Northeastern University, Boston, Mass. 1925

AMIDON, LEE L., Instructor in Steam and Experimental Engineering, West Virginia University, Morgantown, W. Va. 1928

ANDERSON, C. A., Assistant Professor of Electrical Engineering, Junior College, University of Pittsburgh, Johnstown, Pa. .. 1926

ANDERSON, D. S., Professor of Electrical Engineering, Dean of the College of Engineering, Tulane University, New Orleans, La. (*Member of Council, 1926–9; Vice President, 1931–32*) 1900

ANDERSON, EDWARD 1928

ANDERSON, HERBERT J., 222 East Wentah St., Colorado Springs, Colo. 1928

ANDERSON, H. W., Assistant Professor of Electrical Engineering, Iowa State College, Ames, Iowa (850 Mass. Ave., Cambridge, Mass.) 1925

ANDERSON, JAMES A., Professor of Civil Engineering, Virginia Military Institute, Lexington, Va. 1922

ANDERSON, ROBERT M., Emeritus Professor of Mechanical Engineering, Stevens Institute of Technology; Guilford Road, Circleville, Ohio 1926

ANDERSON, STEWART W., Professor of Electrical Engineering, Virginia Military Institute, Lexington, Va. 1921

ANDERSON, WILLIAM, Professor of Physics and Electrical Engineering, Rhode Island State College, Box 74, Kingston, R. I..... 1910

ANDREWS, CARL B., Professor of Engineering, University of Hawaii, Honolulu, T. H 1925

ANTHONY, G. C., Dean Emeritus, Engineering School, Tufts College, 5 Circuit Road, New Rochelle, N. Y. (*President, 1913–4; Vice President, 1911–2; Member of Council, 1913–.*) 1896

APPLEBY, W. R., Dean, School of Mines and Metallurgy, University of Minnesota, Minneapolis, Minn. 1913

ARCHIBALD, LEON, Instructor in Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn 1919

ARDUSER, LEON P., Special Representative, International Textbook Company, Scranton, Pa. 1925

ARMSBY, HENRY H., Registrar and Student Advisor, Missouri School of Mines and Metallurgy, Rolla, Mo. 1917

ARNOLD, BION J., President, The Arnold Engineering Co., 2318 So. La Salle Street, Chicago, Ill. 1906

ARNOLD, JOSEPH N., Instructor in Practical Mechanics, Purdue University, Lafayette, Ind. 1933

ATKINSON, ALBERT A., Professor of Physics and Electrical Engineering, Ohio University, Athens, Ohio 1927

ATTWOOD, STEPHEN S., Assistant Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich..... 1926

AULICH, WITOLD M., Lecturer in Mechanical Engineering, Polytechnic of Lwow, ul. Dunin-Borkowskich 2, Lwow, Poland .. 1930

AULT, E. STANLEY, Associate Professor of Machine Design, Case School of Applied Science, Cleveland, Ohio 1925

AUTENREITH, GEORGE C., Associate Professor of Machine Design and Mechanical Drawing, College of the City of New York, New York City 1927

AYARS, WILLIAM S., Associate Professor of Industrial Engineering, Columbia University, New York City 1928

AYER, FRED. E., Dean, College of Engineering and Commerce, University of Akron, Akron, O. (*Member of Council, 1933–36.*) 1907

AYRES, QUINCY C., Associate Professor of Agricultural Engineering, Iowa State College, Ames, Iowa 1926

BABBITT, ARTHUR B., General Manager, Kent Machine Works, Cuyahoga Falls, Ohio 1931

BABBITT, HAROLD E., Professor of Sanitary Engineering, University of Illinois, Urbana, Ill. 1922

BABCOCK, JOHN B., Professor of Railway and Highway Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1923

BACKER, LESLIE H., Associate Professor of Chemistry, Stevens Institute of Technology, Hoboken, N. J. 1930

BACON, G. M., 3 Hammond Street, Cambridge, Mass. 1907

BACON, GEORGE P., Dean of Engineering, Professor of Physics, Tufts College, Tufts College, Mass. 1922

BAENDER, F. G., Professor and Head, Department of Mechanical Engineering, Oregon State College, Corvallis, Ore. 1928

BAGLEY, JOHN B., Professor and Head, Dept. Textile Engineering, A. & M. College of Texas, College Station, Tex. 1923

BAILEY, BENJ. F., Professor and Head, Dept. of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1920
BAILEY, CHARLES F., Engineer Director, Newport News Shipbuilding and Dry Dock Company, Newport News, Va. 1928
BAILEY, FLOYD, Dean, Santa Rosa Junior College, Santa Rosa, Calif. 1933
BAILEY, NEIL P., Associate Professor of Mechanical Engineering, University of North Carolina, Chapel Hill, N. C. 1930
BAINER, ROY, Assistant Professor of Agricultural Engineering, University of California, Davis, Calif. 1933
BAIRD, CHARLES O., JR., Instructor in Civil Engineering, Northeastern University, Boston, Mass. 1926
BAIRD, RALPH W., Assistant Professor of Agricultural Engineering, Oklahoma A. and M. College, Stillwater, Okla. 1926
BAITY, HERMAN G., Dean of Engineering, University of North Carolina, Chapel Hill, N. C. 1928
BAKER, CHESTER P., Associate Professor of Chemical Engineering, Northeastern University, Boston, Mass. 1926
BAKER, DOUGLAS, Instructor in Mathematics and Mechanical Engineering, New York University, New York, N. Y. 1926
BAKER, ELLIS C., Professor in charge, Dept. of Mechanical Engineering, Oklahoma A. and M. College, Stillwater, Okla. 1925
BAKER, RAY P., Assistant Director, Rensselaer Polytechnic Institute, Troy, N. Y. 1919
BAKER, THOMAS S., President, Carnegie Institute of Technology, Pittsburgh, Pa. 1923
BALDWIN, LEO S., Assistant Professor of Drawing, Milwaukee Center, University of Wisconsin, Milwaukee, Wis. 1930
BALDWIN, ORVAL J., Instructor in Engineering Drawing, University of Iowa, Iowa City, Iowa 1929
BALL, ALBERT, Professor of Physics, Cooper Union, New York, N. Y. 1908
BALL, THEODORE R., Associate Professor of Chemistry, Washington University, St. Louis, Mo. 1930
BALL, THOMAS F., Head, Department of Electrical Engineering, University of South Carolina, Columbia, S. C. 1928
BALMFORD, J. ARTHUR, Assistant Professor of Electrical Engineering, Columbia University, New York City 1929
BANGRATZ, ERNEST G., Instructor, Electrical Engineering Dept., Massachusetts Institute of Technology, Cambridge, Mass. 1922
BANGS, JOHN R., JR., Professor of Administrative Engineering, Cornell University, Ithaca, N. Y. 1932
BANTEL, E. C. H., Professor of Civil Engineering, Assistant Dean, College of Engineering, University of Texas, Austin, Tex.... 1925
BARBA, C. E., Mechanical Engineer, Boston and Maine R. R., North Billerica, Mass. 1915
BARCLAY, STANTON D., 123 Heath Street, Boston, Mass. 1926

BARGER, E. L., Instructor in Agricultural Engineering, Kansas State College, Manhattan, Kansas 1932
BARKER, CHARLES L., Instructor in Mathematics and Hydraulics, University of Minnesota, Minneapolis, Minn. 1928
BARKER, JOSEPH W., Dean, School of Engineering, Columbia University, New York, N. Y. 1926
BARLOW, HOWARD W., Instructor in Aeronautical Engineering, University of Minnesota, Minneapolis, Minn. 1932
BARLOW, WILLIAM E., Professor of Metallurgy and Metallography, Virginia Polytechnic Institute, Blacksburg, Va. 1910
BARNARD, NILES H., Professor of Mechanical Engineering, Tennessee Polytechnic Institute, Cookeville, Tenn. 1930
BARNARD, W. N., Professor of Heat Power Engineering, Cornell University, Ithaca, N. Y. (*Member of Council, 1923–6.*).... 1910
BARNES, F. A., Director, School of Civil Engineering, Professor of Railroad Engineering, Cornell University, Ithaca, N. Y..... 1904
BARNES, GEORGE E., Professor of Hydraulic and Sanitary Engineering, Case School of Applied Science, Cleveland, Ohio 1933
BARNES, RALPH M., Associate Professor of Industrial Engineering, State University of Iowa, Iowa City, Iowa 1929
BARNETT, BRINKLEY, Assistant Professor of Electrical Engineering, University of Kentucky, Lexington, Ky. 1929
BARNEY, EDGAR S., Principal, Hebrew Technical Institute, 36 Stuyvesant St., New York, N. Y. 1912
BARNEY, S. E., Assistant Professor of Civil Engineering, Retired, Yale University, New Haven, Conn. 1894
BARNWELL, GEORGE W., Assistant Professor of Economics of Engineering, Stevens Institute of Technology, Hoboken, N. J. 1932
BARRETT, SAMPSON K., Director, Evening Engineering Section; Professor of Illuminating Engineering, New York University, New York City 1928
BARROWS, H. K., Professor of Hydraulic Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1902
BARROWS, W. E., JR., Professor of Electrical Engineering, University of Maine, Orono, Me. 1908
BARTLETT, GEORGE M., Professor of Machine Design, Purdue University, Lafayette, Ind. 1928
BARTOW, EDWARD, Professor and Head, Department of Chemistry and Chemical Engineering, State University of Iowa, Iowa City, Ia. 1921
BASHIOUM, HARRISON C., Professor and Head, Dept. of Chemical Engineering, University of Pittsburgh, Pittsburgh, Pa..... 1920
BASS, FREDERIC, Chairman, Department of Civil Engineering, University of Minnesota, Minneapolis, Minn. (*Member of Council 1918–21.*) 1908
BATCHELDER, DEAN E., Assistant, Pine Canyon Dam, Azusa, Calif. 1930

BATEMAN, GEORGE F., Dean, Schools of Engineering, Professor of Mechanical Engineering, The Cooper Union, New York City. 1925
BATES, ONWARD, Civil Engineer, Retired, 832 Belden Ave., Chicago, Ill. 1903
BAUER, F. S., Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1914
BAUER, PAUL, Instructor in Mechanical Engineering, Purdue University, Lafayette, Ind. 1930
BAUER, W. C., Dean and Professor of Electrical Engineering, Northwestern University, Evanston, Ill. 1910
BAUER, WM. M., Instructor in Electrical Engineering, Northwestern University, Evanston, Ill. 1933
BAUM, HARRY, Associate Professor of Electrical Engineering, College of the City of New York, New York City 1927
BAXTER, ROBERT A., Associate Professor of Chemistry, Colorado School of Mines, Golden, Colo. 1925
BEACH, ROBIN, Professor and Head, Dept. of Electrical Engineering, The Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1917
BEAN, HAROLD E., Instructor in Pattern Making, Pratt Institute, Brooklyn, N. Y. 1929
BEAVER, J. L., Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1914
BECK, FRED J., Instructor in Electrical Engineering, Yale University, New Haven, Conn. 1929
BECK, LESTER E., Instructor in Electrical Engineering, Purdue University, Lafayette, Ind. 1931
BECKER, SYLVANUS A., Associate Professor of Civil Engineering, Lehigh University, Bethlehem, Pa. 1933
BEEBE, GORDON A., Assistant Professor of Civil Engineering, South Dakota State School of Mines, Rapid City, S. D. 1929
BEGG, ROBERT B. H., Professor of Civil Engineering, Virginia Polytechnic Institute, Blacksburg, Va. 1927
BEGGS, G. E., Professor of Civil Engineering, Princeton University, Princeton, N. J. 1915
BEITLER, SAMUEL R., Assistant Professor of Mechanical Engineering. The Ohio State University, Columbus, Ohio 1926
BELZ, CHARLES J., Assistant Professor of Civil Engineering, University of Dayton, Dayton, Ohio (3516 9th St., N.E., Washington, D. C.) 1929
BENEDICT, H. Y., President, University of Texas, Austin, Texas.. 1906
BENEDICT, OTIS, JR., Instructor in Machine Shop Practice, Pratt Institute, Brooklyn, N. Y. 1929
BENFORD, WM. R., Instructor in Engineering, Brown University, Providence, R. I. 1932
BENJAMIN, CURTIS G., Manager, College Dept., McGraw-Hill Book Co., Inc., 330 W. 42d St., New York City 1933

BENNER, J. ALFRED, Assistant Professor of Mathematics, Lafayette College, Easton, Pa. 1931

BENNETT, CLAUDIUS E., Utilities Manager, City of Fort Pierce, Box 304, Florida 1931

BENNETT, DONALD M., Associate Professor of Physics, University of Louisville, Louisville, Ky. 1927

BENNETT, EDW., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. (*Member of Council, 1923–6; Vice President, 1929–30.*) 1909

BENNETT, J. GARDNER, Professor of Civil Engineering, Lewis Institute, Chicago, Ill. 1932

BENTLEY, WALTER J., Assistant Professor of Chemical Engineering, Armour Institute of Technology, Chicago, Ill. 1923

BERARD, SAMUEL J., Associate Professor of Engineering Drawing, Brown University, Providence, R. I. 1912

BERESFORD, HOBART, Professor and Head, Department of Agricultural Engineering, University of Idaho, Moscow, Idaho 1929

BERG, E. J., Professor of Electrical Engineering, Union University, Schenectady, N. Y. 1910

BERGEN, HAROLD B., Director of Industrial Relations, The Procter & Gamble Company, Ivorydale, Ohio 1929

BERGER, FRANZ A., Professor of Mechanical Engineering, Washington University, St. Louis, Mo. 1924

BERGMAN, ELMER O., Assistant Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1926

BERNARD, MIGUEL, Head, Technical Bureau, Education Department, Mexican Government, Gelati 17, Tacubaya, D. F., Mexico 1925

BERRY, C. HAROLD, Professor of Mechanical Engineering, Harvard University, Cambridge, Mass. 1928

BERRY, CHARLES W., Professor of Heat Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1926

BERRY, EDWARD F., Associate Professor of Civil Engineering, Syracuse University, Syracuse, N. Y. 1928

BERRY, H. C., Professor of Materials of Construction, University of Pennsylvania, Philadelphia, Pa. (*Member of Council, 1923–6.*) 1916

BERRY, W. J., Professor and Head, Department of Mathematics, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1910

BEVAN, W. A., Professor of Aeronautical Engineering, Iowa State College, Ames, Iowa 1915

BEYER, ALBIN H., Professor of Civil Engineering, Columbia University, New York City 1929

BEYER, EDMOND W., P. O. Box 96, Ballston Lake, N. Y. 1929

BIBBER, HAROLD W., Associate Professor of Electrical Engineering, The Ohio State University, Columbus, Ohio 1922

BIDWELL, CHARLES C., Professor and Head, Dept. of Physics, Lehigh University, Bethlehem, Pa. 1927

BIEGLER, PHILIP S., Dean, College of Engineering, Professor of Electrical Engineering, University of Southern California, Los Angeles, Calif. 1925

BILLINGS, J. HARLAND, Professor of Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1919

BILLMYER, CARROLL D., Supt. of Construction and Assistant Professor of Engineering, Rhode Island State College, Kingston, R. I. 1917

BINGHAM, LLOYD A., Assistant Professor of Electrical Engineering, University of Nebraska, Lincoln, Neb. 1933

BIRD, H. C., Professor and Head of Civil and Mechanical Engineering, Duke University, Durham, N. C. 1914

BIRD, R. M., Professor of Chemistry, University of Virginia, University, Va. 1915

BIRK, W. OTTO, Professor of English, University of Colorado, Boulder, Colo. 1920

BISCHOF, GUSTAVE J., Instructor in Mechanical Engineering, College of the City of New York, New York, N. Y. 1931

BISHOP, C. T., Associate Professor of Structural Engineering, Yale University, New Haven, Conn. 1912

BISHOP, F. L., Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. (Life Member.) (*Secretary, 1914–; Member of Council, 1912–; Secretary, Board of Investigation and Coordination, 1922–.*) 1907

BISSELL, G. W., Emeritus, Dean of Engineering, Michigan State College, P. O. Box 116, Monrovia, Calif. (*Member of Council, 1899–02; 1910–13.*) 1894

BIVINS, CHALFANT E., Instructor in Chemistry, Pratt Institute, Brooklyn, N. Y. 1930

BLACK, HAYSE H., State Technician, Springfield, Ill. 1929

BLACK, R. M., Professor and Head, Department of Mining, University of Pittsburgh, Pittsburgh, Pa. 1912

BLACKBURN, HENRY W., Assistant Professor of Experimental Engineering, Syracuse University, Syracuse, N. Y. 1928

BLAISDELL, A. H., Associate Professor of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1921

BLAKE, DOUGLAS, c/o Mrs. W. A. Brown, Cleveland, Tenn. 1929

BLAKE, FREDERIC C., Professor of Physics, The Ohio State University, Columbus, O. 1918

BLAKESLEE, BERT N., Professor of Architecture, University of Detroit, Detroit, Mich. 1926

BLALOCK, GROVER C., Associate Professor of Electrical Engineering, Purdue University, Lafayette, Ind. 1918

BLISS, COLLINS P., Dean, and Professor of Mechanical Engineering, New York University, University Heights, New York City ... 1915

BLISS, HOWARD H., Director of Engineering, Riverside Junior College, Riverside, Calif. 1923

BLISS, WARREN H., Instructor in Electrical Engineering, University of Maine, Orono, Maine 1933

BLISS, WILLIAM D., President, Bliss Brothers Tool Company, 590 Second St., Milwaukee, Wis. 1926

BLISS, ZENAS R., Assistant Professor of Applied Mechanics, Brown University, Providence, R. I. 1927

BLODGETT, HOWARD B., Assistant Professor of Civil Engineering, South Dakota State College, Brookings, S. D. 1933

BLOSSOM, FRANCIS, Civil Engineer, Sanderson and Porter, 52 Williams Street, New York, N. Y. 1930

BLUMBERG, LEO, Associate Professor of Mechanical Engineering, University of Delaware, Newark, Del. 1922

BOARDMAN, H. P., Professor of Civil Engineering, Director, Engineering Experiment Station, University of Nevada, Reno, Nev. 1914

BOARDMAN, H. S., President, University of Maine, Orono, Me. (*President, 1930–31; Vice President, 1923–4; Member of Council, 1919–24; 1930–.*) 1903

BOELTER, LLEWELLYN M. K., Associate Professor of Mechanical Engineering, University of California, Berkeley, Calif..... 1931

BOGGS, ROBERT W., Mechanical Engineer, Union Carbide Company, 205 East 42d Street, New York City 1929

BOGGS, GILBERT H., Professor and Head, Department of Chemistry and Chemical Engineering, Georgia School of Technology, Atlanta, Ga. 1933

BOHL, LEIGHTON T., Professor of Civil Engineering, Brown University, Providence, R. I. 1926

BOLE, GEORGE A., Research Professor of Ceramic Engineering, The Ohio State University, Columbus, Ohio 1928

BOLTON, F. C., Dean, School of Engineering and of College, Professor of Electrical Engineering, A. and M. College of Texas, College Station, Texas. (*Member of Council, 1919–22.*) 1910

BOND, GEORGE W., Assistant Professor of Chemistry, South Dakota School of Mines, Rapid City, S. D. 1931

BOOMSLITER, G. P., Professor of Mechanics, West Virginia University, Morgantown, W. Va. 1912

BOON, LEONARD F., Assistant Professor of Civil Engineering, University of Minnesota, Minneapolis, Minn. 1922

BOOTH, JAMES L., Instructor in Mechanics, University of Nebraska, Lincoln, Nebr. 1928

BOOTHROYD, S. L., Professor of Astronomy and Geodesy, Cornell University, Ithaca, N. Y. 1908

BORDNER, EARL R., Assistant Professor of Physics, Pennsylvania State College, State College, Pa. 1926

BORGQUIST, E. S., Associate Professor of Civil Engineering, University of Arizona, Tucson, Ariz. 1931

BORING, MAYNARD M., Industrial Service Dept., General Electric Co., Schenectady, N. Y. 1922
BORTELL, EARLE E., Associate Professor of Physics, Georgia School of Technology, Atlanta, Ga. 1933
BOSE, SURENDRA N., Chief Electrical Engineer, The Tata Iron and Steel Co., Ltd., Jamshedpur, via. Tatanagar, B. N. Rly., India. 1927
BOSS, WILLIAM, Professor and Chief, Division of Agricultural Engineering, University of Minnesota, St. Paul, Minn..... 1925
BOUCHARD, HARRY, Professor of Railway Engineering, University of Michigan, Ann Arbor, Mich. 1921
BOURDELAIS, GEORGE A., Superintendent of Shop, Swarthmore College, Swarthmore, Pa. 1931
BOWLER, EDMOND W., Professor and Head, Department of Civil Engineering, University of New Hampshire, Durham, N. H. 1923
BOWLES, EDWARD L., Associate Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1931
BOWMAN, HARRY L., Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1922
BOWMAN, HENRY T., Instructor in Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1929
BOWMAN, JAMES H., Instructor in Electrical Engineering, Purdue University, Lafayette, Ind. 1931
BOWMAN, JOHN G., Chancellor, University of Pittsburgh, Pittsburgh, Pa. 1923
BOYCE, EARNEST, Associate Professor of Civil Engineering, University of Kansas, Lawrence, Kans..... 1924
BOYD, ALFRED, Professor of Civil Engineering, University of North Dakota, Grand Forks, N. D. 1909
BOYD, JAMES E., Professor of Mechanics, The Ohio State University, Columbus, O. (*Member of Council, 1911–4.*) 1907
BOYER, AURELIEN, Principal, Ecole Polytechnique, Montreal, Canada 1930
BOYLSTON, HERBERT M., Professor of Metallurgy, Case School of Applied Science, Cleveland, O. 1921
BRACKETT, B. B., Professor of Electrical Engineering, University of South Dakota, Vermillion, S. D. 1906
BRACKETT, B. B., Director of Radio, University of South Dakota, Vermillion, S. D. 1906
BRADEN, CLARENCE C., Box 472, Jefferson, Texas 1923
BRADFORD, J. N., Professor of Architecture and University Architect, The Ohio State University, Columbus, O. 1896
BRADLEY, HARRY C., Associate Professor of Drawing and Descriptive Geometry, Massachusetts Institute of Technology, Cambridge, Mass. 1930
BRADLEY, JAMES A., Assistant Professor of Chemical Engineering, Dean, Newark College of Engineering, Newark, N. J. 1931
BRAGG, EDWARD M., Professor of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor, Mich. 1920

BRAGONIER, ARTHUR T., Associate Professor of Applied Mathematics, Marshall College, Huntington, W. Va. 1926
BRAHTZ, JOHN H. A., Research Fellow, California Institute of Technology, Pasadena, Calif. 1933
BRAINARD, BOYD B., Associate Professor of Mechanical Engineering, Kansas State College, Manhattan, Kansas 1926
BRANDEBERRY, JOHN B., Professor of Mathematics, University of Toledo, Toledo, O. 1923
BRANDES, FRED C., City Plan Engineer, 112 Mamaroneck Road, White Plains, N. Y. 1920
BRANDT, CARL D., Head, Textile Engineering Department, Texas Technological College, Lubbock, Texas 1931
BRANIGAN, GEORGE F., Instructor in Machine Design, Kansas State College, Manhattan, Kansas 1929
BRAUTLECHT, C. A., Professor of Chemistry and Chemical Engineering, University of Maine, Orono, Me. 1922
BRAY, JOHN L., Professor of Metallurgy, Purdue University, Lafayette Ind. 1925
BRECKENRIDGE, L. P., Professor Emeritus of Mechanical Engineering, Sheffield Scientific School; The Brackens, North Ferrisburg, Vt. (*Member of Council, 1908–11; 1915–8.*) 1893
BREED, CHARLES B., Professor of Railway and Highway Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1904
BRENKE, WILLIAM C., Professor of Mathematics, University of Nebraska, Lincoln, Nebr. 1929
BRENNEMAN, JESSE L., Professor of Electrical Engineering, Kansas State College, Manhattan, Kansas 1929
BREWER, ALEXANDER V., Associate Professor of Mechanical Engineering, A. & M. College of Texas, College Station, Texas .. 1929
BRICK, BAYARD R., Instructor in Engineering Mathematics, Washington University, St. Louis, Mo. 1932
BRIDGE, L. R., R. F. D. No. 6, Columbia City, Ind. 1929
BRIGHTMAN, CHARLES L., Professor of Physics, Syracuse University, Syracuse, N. Y. 1928
BRIGMAN, BENNETT M., Dean, Speed Scientific School, University of Louisville, Louisville, Ky. (*Member of Council, 1925–8.*) 1923
BRILL, PHILIP B., Lecturer in Industrial Management, (Associate Professor) Yale University, New Haven, Conn. 1927
BRINKER, RUSSELL C., Instructor in Civil Engineering, University of Minnesota, Minneapolis, Minn. 1931
BRISTOL, FRANK J., Instructor in Electrical Engineering, Cornell University, Ithaca, N. Y. 1929
BROCK, R. W., Dean, Faculty of Applied Science, University of British Columbia, Vancouver, B. C. 1923
BROOKE, W. E., Professor and Head of Department of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. (*Member of Council, 1924–7.*) 1902

BROOKES, JOHN F., Director, School of Civil Engineering, Professor of Civil Engineering, University of Oklahoma, Norman, Okla. 1924

BROOKMAN, HAROLD E., Associate Professor of Mechanical Engineering, University of South Dakota, Vermillion, S. D. 1931

BROOKS, J. ANSEL, Professor of Mechanical Engineering, Newark College of Engineering, Newark, N. J. 1904

BROOKS, JOHN P., President Emeritus, Clarkson College of Technology, Albion Hotel, Potsdam, N. Y. (*Member of Council, 1900–03.*) 1898

BROOKS, MORGAN, Professor Emeritus of Electrical Engineering, University of Illinois, Urbana, Ill. 1899

BROTHER AMANDUS LEO, Dean of Engineering, Manhattan College, New York City 1928

BROTHER D. FELIX, Professor of Mathematics, Manhattan College, New York City 1928

BROWN, ARTHUR S., Instructor in Electrical Engineering, University of Arkansas, Fayetteville, Ark. 1930

BROWN, AUBREY I., Associate Professor of Heating and Ventilating, The Ohio State University, Columbus, O. 1914

BROWN, CHARLES C., Acting Associate Professor of Civil Engineering, University of Florida, Gainesville, Fla. 1928

BROWN, CLEO A., Head, English Department, General Motors Institute of Technology, Flint, Mich. 1931

BROWN, EDWARD C., Instructor in Mathematics, Worcester Polytechnic Institute, Worcester, Mass. 1922

BROWN, FREDERICK L., Associate Professor of Physics, University of Virginia, University, Va. 1926

BROWN, F. L., Professor of Applied Mechanics, University of Kansas, Lawrence, Kans. 1915

BROWN, HUGH A., Assistant Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1928

BROWN, LYNN T., Associate Professor of Mechanical Engineering, Iowa State College, Ames, Iowa 1931

BROWN, RALPH E., Assistant Professor of Mechanical Engineering, Rhode Island State College, Kingston, R. I. 1924

BROWN, WALTER F., Associate Professor of Electrical Engineering, University of Toledo, Toledo, Ohio 1932

BROWN, WESLEY B., Associate Professor of Electrical Engineering, Vanderbilt University, Nashville, Tenn. 1926

BROWN, WILLIAM F., Lecturer in Physics, Columbia University, New York City 1928

BROWN, WILSON F. 1931

BROWNE, WM. HAND, JR., Professor and Head, Dept. of Electrical Engineering, North Carolina College of A. and E., State College Station, Raleigh, N. C. (*Member of Council, 1916–9.*) 1899

BRUBAKER, WM. F., Assistant Professor of General Engineering Drawing, University of Colorado, Boulder, Colo. 1924

BRUCKNER, ARTHUR, Associate Professor of Mechanical Engineering, College of the City of New York, New York City 1927

BRUMFIELD, RAY C., Assistant Professor of Civil Engineering, Cooper Union, New York City 1929

BRUNIG, M. P., Instructor in Agricultural Engineering, University of Nebraska, Lincoln, Neb. 1932

BRUNTON, LIONEL J., Instructor in Mechanical Engineering, University of Colorado, Boulder, Colo. 1929

BRYANS, W. R., Assistant Dean, Professor of Mechanics, New York University, New York, N. Y. 1908

BRYANT, J. M., Professor and Head, Dept. of Electrical Engineering, University of Minnesota, Minneapolis, Minn. (*Member of Council, 1927–30.*) 1910

BUBB, FRANK W., Associate Professor of Applied Mathematics, Washington University, St. Louis, Mo. 1931

BUCHANAN, JESSE E., Instructor and Testing Engineer, University of Idaho, Moscow, Idaho 1927

BUCHANAN, ROY O., Associate Professor of Electrical Engineering, University of Vermont, Burlington, Vt. 1922

BUCHER, PAUL, Associate Professor of Steam Engineering, The Ohio State University, Columbus, Ohio 1920

BUCK, A. M., Engineering Editor, *Electric Railway Journal*, 10th Ave., at 36th St., New York, N. Y. 1910

BUCKINGHAM, EARLE, Professor of Engineering Standards and Measurements, Massachusetts Institute of Technology, Cambridge, Mass. 1932

BUECHE, H. S., Professor of Electrical Engineering, Villanova College, Villanova, Pa. 1932

BUKOVSKY, PAUL N., Assistant Professor of Mechanism and Engineering Drawing, University of Michigan, Ann Arbor, Mich. 1930

BULGER, JOHN W., Associate Professor of Civil Engineering, University of Akron, Akron, Ohio 1925

BULL, HEMPSTEAD S., Assistant Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1933

BULLARD, JAMES A., Professor of Mechanics and Mathematics, University of Vermont, Burlington, Vt. 1927

BULLINGER, CLARENCE E., Professor and Head, Dept. of Industrial Engineering, The Pennsylvania State College, State College, Pa. 1925

BULLOCK, WILLIAM E., Secretary, American Institute of Weights and Measures, 33 Rector St., New York, N. Y. 1917

BUNTING, ALBERT E., Assistant Professor of Practical Mechanics, University of Nebraska, Lincoln, Neb. 1928

BURDEN, HARRY P., Professor of Sanitary Engineering, Tufts College, Tufts College, Mass. 1921

BUREAU, E. A., Professor of Electrical Engineering, University of Kentucky, Lexington, Ky. 1923

BURGER, W. H., Professor of Civil Engineering, Northwestern University, Evanston, Ill. 1910

BURLEY, JOHN W., Head, Machine Dept., Pratt Institute, Brooklyn, N. Y. 1926

BURNS, FRANCIS J., Instructor in Engineering Drawing, Newark College of Engineering, Newark, N. J. 1933

BURNS, GEORGE W., Assistant Dean of Engineering, University of Cincinnati, Cincinnati, Ohio 1931

BURPEE, F. E., Professor of Mechanical Engineering, Bucknell University, Lewisburg, Pa. 1910

BURR, ARTHUR H., Instructor in Mechanical Engineering, Rice Institute, Houston, Texas 1933

BURR, WM. H., Emeritus Professor of Civil Engineering, Columbia University, Consulting Engineer, 346 Broadway, New York, N. Y. 1893

BURSLEY, JOSEPH A., Professor of Mechanical Engineering, Dean of Students, University of Michigan, Ann Arbor, Mich..... 1910

BUSH, VANNEVAR, Vice President and Dean of Engineering, Massachusetts Institute of Technology, Cambridge, Mass. .. 1923

BUTLER, G. M., Dean, College of Mines and Engineering, Director, Arizona Bureau of Mines, University of Arizona, Tucson, Ariz. (*Member of Council, 1924–7.*) 1916

BUTLER, HARTMAN L., Professor of Military Science, Washington University, St. Louis, Mo. 1931

BUTLER, JOE B., Professor of Civil Engineering, Missouri School of Mines and Metallurgy, Rolla, Mo. 1922

BUTTERFIELD, ARTHUR D., Professor of Mathematics and Geodesy, University of Vermont, Burlington, Vt. 1908

BUTTERFIELD, THOMAS E., Professor of Heat Power Engineering, Lehigh University, Bethlehem, Pa. 1920

BUXTON, G. F., Professor of Industrial Training, Purdue University, Lafayette, Ind. 1928

CADY, LOUIS C., Assistant Professor of Chemistry, University of Idaho, Moscow, Ida. 1931

CALDERWOOD, JAS. P., Professor and Head, Dept. of Mechanical Engineering, Kansas State College, Manhattan, Kans. 1919

CALDWELL, FRANK C., Professor of Electrical Engineering, The Ohio State University, Columbus, O. (*Member of Council, 1905–8.*) 1897

CALLAN, J. A. C., Professor of Civil Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1909

CALLEN, ALFRED C., Professor and Head, Department of Mining Engineering, University of Illinois, Urbana, Ill. 1926

CALVERT, SYDNEY, Professor of Chemistry, University of Missouri, Columbia, Mo. 1933

CAMERON, HUGH S., Instructor in Mechanical Technology, Pratt Institute, Brooklyn, N. Y. 1928

CAMP, EDMOND W., Head, School of Textile Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1929

CAMPBELL, IVOR ST. C., Professor of Electrical Engineering, Ohio Northern University, Ada, Ohio 1925

CAMPBELL, JESSE M., Instructor in Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1931

CAMPBELL, ROBT. D., Associate Professor of Mechanical Engineering, Southern Methodist University, Dallas, Texas 1927

CANAVACIOL, FRANK E., Assistant Professor of Electrical Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y..... 1928

CANDEE, F. W., Assistant Professor of Mechanical Engineering, Washington State College, Pullman, Wash. 1924

CANFIELD, DONALD T., Associate Professor of Electrical Engineering, Purdue University, Lafayette, Ind. 1925

CAPEN, S. P., Chancellor, University of Buffalo, Buffalo, N. Y.... 1917

CAREY, RICHARD F., 183 No. Oraton Parkway, East Orange, N. J. 1928

CARLSON, W. W., Professor of Shop Practice, Kansas State College, Manhattan, Kans. 1912

CARPENTER, D. E., Dean of the Faculty, International Correspondence Schools, Scranton, Pa. 1919

CARPENTER, EDWARD L., Assistant Professor of Mechanical Engineering in charge of Engineering Extension, University of Tennessee, Knoxville, Tenn. 1922

CARPENTER, HUBERT V., Dean, College of Mechanic Arts and Engineering, Director, Engineering Experiment Station, State College of Washington, Pullman, Wash. (*Vice President, 1925–6.*) 1917

CARPENTER, L. G., Consulting Engineer, 1455 Gilpin Street, Denver, Colo. (*Member of Council, 1897–00.*) 1895

CARR, ARTHUR R., Dean, College of Engineering, College of the City of Detroit, Detroit, Mich. 1927

CARR, CLIFFORD C., Instructor in Electrical Technology, Pratt Institute, Brooklyn, N. Y. 1926

CARRUTHERS, JOHN L., Associate Professor of Ceramic Engineering, The Ohio State University, Columbus, Ohio 1929

CARTER, CLIFTON C., Professor of Natural and Experimental Philosophy, U. S. Military Academy, West Point, N. Y..... 1928

CARTER, HAROLD S., Professor of Civil Engineering, South Dakota State College, Brookings, S. D. 1924

CARTER, IKE N., Assistant Professor of Civil Engineering, University of Idaho, Moscow, Idaho 1925

CARVIN, FRANK D., Assistant Professor of Mechanical Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1925
CARY, EDWARD R., Professor of Railway Engineering and Geodesy, Rensselaer Polytechnic Institute, Troy, N. Y. 1922
CASA, ALLANDO A., Associate in Mechanical Engineering, Georgia School of Technology, Atlanta, Ga. 1932
CASBERG, CARL H., Professor of Mechanical Engineering, University of Illinois, Urbana, Ill. 1933
CASE, GEO. W., Dean, College of Technology, Director, Engineering Experiment Station, University of New Hampshire, Durham, N. H. 1914
CASS, RILEY T., Instructor in Civil Engineering, University of Illinois, Urbana, Ill. 1932
CASTLEMAN, JOHN R., Associate Professor of Engineering Drawing, Virginia Polytechnic Institute, Blacksburg, Va. 1930
CAUGHEY, CLARENCE H., Designing Engineer, Barber Greene Co., 6 So. Fordham Ave., Aurora, Ill. 1932
CAUGHEY, R. A., Professor of Structural Engineering, Iowa State College, Ames, Iowa 1911
CAVERLEY, L. C., Assistant Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1927
CHALLENDER, RALPH T., Professor of Machine Design, Montana State College, Bozeman, Mont. 1925
CHAMBERS, SHERMAN D., Associate Professor of Applied Mechanics, Purdue University, Lafayette, Ind. 1921
CHANDLER, E. F., Professor of Civil Engineering and Dean Emeritus, College of Engineering, University of North Dakota, University, N. D. 1907
CHAPMAN, THEO. G., Professor of Metallurgy, University of Arizona, Tucson, Ariz. 1933
CHATBURN, G. R., Professor Emeritus, Applied Mechanics, University of Nebraska, 2850 P St., Lincoln, Nebr. (*President, 1916–7; Vice President, 1915–6; Member of Council, 1912–.*) 1899
CHATELAIN, MIKAEL, Professor of Electrical Engineering, Polytechnic Institute, Leningrad, Russia 1928
CHEATHAM, JAMES C. 1931
CHEEK, FRANK J., JR., Associate Professor of Applied Mechanics and Structural Design, Kansas State College, Manhattan, Kans. 1924
CHERRY, CARLTON E., Instructor in Engineering Mathematics and Mechanics, Marin Junior College, Kentfield, Calif. 1931
CHERRY, FLOYD H., Associate Professor of Electrical Engineering, University of California, Berkeley, Calif. 1930
CHILDS, WILL P., Mechanical Engineer, Herberts Machinery Co., Pasadena, Calif. 1931
CHILES, GEORGE S., Consulting Engineer, 4611 Park Avenue, Ashtabula, Ohio 1919

CHILLMAN, EDWARD F., Professor of Descriptive Geometry, Stereotomy and Drawing, Rensselaer Polytechnic Institute, Troy, N. Y. 1920

CHITTENDEN, HIRAM M., Instructor in Civil Engineering, University of Washington, Seattle, Wash. 1929

CHRISTIE, A. G., Professor of Mechanical Engineering, The Johns Hopkins University, Baltimore, Md. 1923

CHURCH, A. H., Instructor in Engineering Drawing, Cooper Union, New York City 1932

CHURCH, EARL F., Assistant Professor of Applied Mathematics, Syracuse University, Syracuse, N. Y. 1927

CHURCH, EDWIN F., JR., Professor of Mechanical Engineering, The Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1910

CHURCHILL, HARRY D., Assistant Professor of Mechanics, Case School of Applied Science, Cleveland, Ohio 1925

CIRCÉ, ARMAND, Professor of Strength of Materials, Ecole Polytechnique, Montreal, Canada 1930

CISSEL, J. H., Professor of Structural Engineering, University of Michigan, Bridge Designer, State Highway Commission, Ann Arbor, Mich. 1920

CLARK, A. L., JR., Assistant Professor of Drawing, University of Michigan, Ann Arbor, Mich. 1933

CLARK, DAVIS S., Instructor in Mechanical Engineering, Purdue University, Lafayette, Ind. 1932

CLARK, EDGAR C., Instructor in Mechanics, The Ohio State University, Columbus, Ohio 1928

CLARK, EDWIN E., Assistant Professor of Electrical Engineering, South Dakota School of Mines, Rapid City, S. D. 1922

CLARK, JAMES C., Professor of Electrical Engineering, University of Arizona, Tucson, Ariz. 1912

CLARK, LEROY W., Professor of Mechanics, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

CLARKE, ELWYN L., Professor of Civil Engineering, Clemson College, Clemson College, S. C. 1921

CLEARY, STEPHEN F., Instructor in Drawing, Cornell University, Ithaca, N. Y. 1932

CLEGHORN, M. P., Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1910

CLEMENTS, GUY R., Professor of Mathematics, United States Naval Academy, Annapolis, Md. 1931

CLEVELAND, LAURENCE F., Instructor in Drawing, Northeastern University, Boston, Mass. 1930

CLIFFORD, H. E., Gordon McKay Professor of Electrical Engineering, Dean, Engineering School, Harvard University, Cambridge, Mass. 1907

CLOKE, PAUL, Dean, College of Technology, University of Maine, Orono, Me. (*Vice President, 1932–33; Member of Council, 1928–31.*) 1919

CLOUSE, JOHN H., University of Miami, Coral Gables, Fla. 1927

CLOUSING, LAWRENCE A., Instructor in Mechanical and Aeronautical Engineering, Northwestern University, Evanston, Ill. 1933

CLUTZ, FRANK H., B. F. Blough Professor of Civil Engineering, Gettysburg College, Gettysburg, Pa. 1922

COAHRAN, J. M., Practicing Engineer, Box 447, Smethport, Pa.... 1916

COBLEIGH, W. M., Dean of Engineering, Professor of Chemical Engineering, Montana State College, Bozeman, Mont. (*Member of Council, 1932–35.*) 1929

COBURN, THEODORE, Western Representative, John Wiley and Sons, Inc., 440 Fourth Avenue, New York City 1925

CODDINGTON, E. F., Professor of Geodetic Engineering, The Ohio State University, Columbus, O. (*Member of Council, 1919–22.*) 1911

CODWISE, HENRY R., Professor of Railroad Engineering and Surveying, Polytechnic Institute of Brooklyn, Brooklyn, N. Y... 1914

COLBY, WHITNEY C., Assistant Manager, Personnel and Training Dept., Standard Oil Company of N. J., 26 Broadway, New York City 1929

COLER, CARL S., Manager, Educational Department, Westinghouse E. & M. Co., East Pittsburgh, Pa. (*Member of Council, 1928–31.*) 1919

COLLIER, IRA L., Assistant Professor of Civil Engineering, University of Washington, Seattle, Wash. 1924

COLLINS, WM. L., Instructor in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1932

COLLYER, NORMAN, Assistant Secretary, Paramount Publix Corporation, Paramount Building, Times Square, New York City ... 1919

COLSTON, ALBERT L., Principal, Brooklyn Technical High School, 49 Flatbush Ave., Ext., Brooklyn, N. Y. 1926

COMPTON, KARL T., President, Massachusetts Institute of Technology, Cambridge, Mass. (*Member of Council, 1933–36.*) .. 1929

COMSTOCK, CLARENCE E., Professor of Mathematics, Bradley Polytechnic Institute, Peoria, Ill. 1909

COMSTOCK, E. H., Professor of Mine Plant and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn..... 1907

CONKLING, LEON D., Professor of Civil Engineering, Montana State College, Bozeman, Mont. 1933

CONLEY, WILLIAM J., Professor of Applied Mechanics, University of Rochester, Rochester, N. Y. 1929

CONNELLY, JOHN R., Instructor in Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1932

CONNER, N. WHITE, Assistant Professor of Applied Mechanics and Experimental Engineering, Virginia Polytechnic Institute, Blacksburg, Va. 1931

CONNER, S. L., Professor of Civil Engineering, Tufts College, Tufts, College, Mass 1912

CONRAD, ALBERT G., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1929

CONRAD, L. E., Professor and Head, Dept. of Civil Engineering, Kansas State College, Manhattan, Kansas. (*Member of Council, 1913–4.*) 1908

CONSTANT, F. H., Professor of Civil Engineering, Princeton University, Princeton, N. J. (*Vice President, 1915–6; Member of Council, 1909–12.*) 1896

CONWELL, WALTER L., Professor of Highway Engineering, Cornell University, Ithaca, N. Y. 1928

COOGAN, CHARLES H., JR., Instructor in Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1931

COOK, A. L., Supervisor and Head of the Dept. of Industrial Electrical Engineering, Pratt Institute, Brooklyn, N. Y..... 1913

COOKE, MORRIS L., Consulting Engineer in Management, 1520 Locust St., Philadelphia, Pa. 1910

COOLBAUGH, MELVILLE F., President, Colorado School of Mines, Golden, Colo. 1925

COOLEY, M. E., Dean Emeritus, University of Michigan, Ann Arbor, Mich. (*President, 1920–1; Vice President, 1908–9; Member of Council, 1893–4; 1907–10; 1920–; Member, Board of Investigation and Coordinations, 1922–3.*) 1893

COOLIDGE, JOSEPH A., Professor of Physics, Northeastern University, Boston, Mass. 1933

COOLIDGE, WARREN A., Assistant Professor of Civil Engineering, Vanderbilt University, Nashville, Tenn. 1929

COONRADT, A. C., Associate Professor of Heat Power Engineering, New York University, New York City 1932

COOPER, CHARLES D., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, Ohio 1929

COOPER, FRANK L., Instructor in Physics, Yale University, New Haven, Conn. 1912

COOVER, MERVIN S., Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1923

COPLEY, JOHN O., Special Teacher, 75 Fifth Avenue, New Rochelle, N. Y. 1926

COPPERSMITH, C. W., Associate Professor of Engineering Drawing, Case School of Applied Science, Cleveland, O. 1915

CORCORAN, GEORGE F., Assistant Professor of Electrical Engineering, State University of Iowa, Iowa City, Iowa 1926

CORNELL, W. R., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1910

CORRELL, J. A., Professor of Electrical Engineering, University of Texas, Austin, Texas 1923

COSANDEY, CHARLES J., Instructor in Electrical Engineering and Mathematics, Duluth Junior College, Duluth, Minn. 1930

COSTA, JOHN J., Professor of Civil Engineering, Manhattan College, New York City 1927

COWIE, ALEXANDER, Instructor in Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1933

COWLES, W. H. H., Head, Department of Mathematics and English, Pratt Institute, Brooklyn, N. Y. 1929

COX, WILLIAM J., Assistant Professor of Engineering Mechanics, Yale University, New Haven, Conn..... 1927

COYLE, JOHN L., Director of Shop Practice, University of Delaware, Newark, Del. 1928

CRAIG, DUDLEY P., Associate Professor of Mechanical Engineering, Purdue University, Lafayette, Ind. 1923

CRAIN, L. D., Professor of Mechanical Engineering, Head of Department, Colorado Agricultural College, Ft. Collins, Colo.... 1918

CRAWFORD, CHARLES W., Professor and Head, Department of Mechanical Engineering, A. & M. College of Texas, College Station, Tex. 1923

CRAWFORD, IVAN C., Dean, College of Engineering, Professor of Civil Engineering, Director, Engineering Experiment Station, University of Idaho, Moscow, Idaho. (*Member of Council, 1929–32.*) 1913

CRAWFORD, W. W., Instructor in Civil Engineering, Kansas State College, Manhattan, Kans. 1926

CREAGER, PAUL S., Associate Professor of Electrical Engineering, Rutgers University, New Brunswick, N. J. 1923

CREEK, HERBERT L., Professor and Head, Dept. of English, Purdue University, Lafayette, Ind. 1922

CRITCHFIELD, C. LEE, Instructor in Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1930

CROCKETT, CHAS. W., Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute, Troy, N. Y. 1912

CROFOOT, GEORGE E., Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1919

CROFT, HUBER O., Professor and Head, Mechanical Engineering Department, State University of Iowa, Iowa City, Iowa..... 1931

CROSBY, LEMUEL S., General Personnel Supervisor, Long Lines Dept., American Telephone and Telegraph Co., 32 6th Ave., New York, N. Y. 1929

CROSS, HARDY, Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1912

CROSSMAN, RALPH S., Associate in General Engineering Drawing, University of Illinois, Urbana, Ill. 1919

CROTHERS, H. M., Dean, Division of Engineering, Professor of Electrical Engineering, South Dakota State College, Brookings, S. D. 1923

CROUCH, C. H., Mechanical Engineer, 755 Anderson Ave., Grantwood, N. J. (*Member of Council, 1911–4; 1915–8.*) 1907

CROUSE, CHARLES S., Head, Mining and Metallurgical Engineering, University of Kentucky, Lexington, Ky. 1929

CRUICKSHANKS, BENJAMIN C., Associate Professor of Mechanical Engineering, George Washington University, Washington, D. C. 1931

CRUZEN, FRED T., Instructor in Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1931

CULLIMORE, ALLAN R., President, Newark College of Engineering, Newark, N. J. 1914

CULVER, EDWARD P., Associate Professor of Mechanical Engineering, Princeton University, Princeton, N. J. 1931

CUMMINGS, HAROLD N., Professor of Civil Engineering, Newark College of Engineering, Newark, N. J. 1930

CUNNINGHAM, JOHN B., Professor of Metallurgy, University of Arizona, Tucson, Ariz. 1933

CURFMAN, LAWRENCE E., Professor of Mathematics, Kansas State Teachers College, 406 West Adams Street, Pittsburgh, Kansas. 1927

CURRY, WALTER A., Assistant Professor of Electrical Engineering, Columbia University, New York City 1928

CURTIS, DONALD D., Professor of Mechanics, Clemson College, Clemson College, S. C. 1923

CURTNER, D. L., Associate Professor of Electrical Engineering, Purdue University, Lafayette, Ind. 1921

CUSHMAN, PAUL A., Professor and Head, Department of Mechanical Engineering, Valparaiso University, Valparaiso, Ind. 1922

CUTLER, A. S., Professor of Railway Engineering, University of Minnesota, Minneapolis, Minn. 1926

CUTSHALL, CHESTER S., Associate Professor of Applied Mechanics, Purdue University, Lafayette, Ind. 1924

DAGGETT, P. H., Dean, College of Engineering, Rutgers University, New Brunswick, N. J. (*Member of Council, 1921–4.*) 1910

DAHL, OTTO G. C., Professor of Electric Power Transmission, Massachusetts Institute of Technology, Cambridge, Mass. 1932

DAKE, EARL D., Professor of Civil Engineering, South Dakota State School of Mines, Rapid City, S. D. 1929

DALAKER, HANS H., Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

DALE, R. BURDETTE, Supervisor, Industrial and Mechanical Engineering, Head, Dept. Drawing and Design, Pratt Institute, Brooklyn, N. Y. 1921

DALEY, JOHN L., Instructor in Electrical Engineering, Yale University, New Haven, Conn. 1932

DANA, FOREST C., Professor of General Engineering, Iowa State College, Ames, Iowa 1923
DANFORTH, R. H., Professor of Mechanics and Hydraulics in charge of the Warner Laboratories, Case School of Applied Science, Cleveland, O. 1914
DANIEL, CHARLES M. 1926
DANIELS, JOSEPH, Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash..... 1910
DANSTEDT, RUDOLPH T. 1930
DATES, HENRY B., Professor of Electrical Engineering, Case School of Applied Science, Cleveland, Ohio 1929
DAVIDSON, J. BROWNLEE, Professor and Head, Department of Agricultural Engineering, Iowa State College, Ames, Iowa... 1915
DAVIDSON, M. W., Professor of Applied Mathematics, University of South Dakota, Vermillion, S. D. 1917
DAVIES, C. E., Executive Secretary, American Society of Mechanical Engineers, 29 West 39th Street, New York City 1925
DAVIS, DAVID E., Instructor in Mechanical Engineering, Newark College of Engineering, Newark, N. J. 1925
DAVIS, GEO. JACOB, JR., Dean and Professor of Civil Engineering, University of Alabama, University, Ala. 1913
DAVIS, HALLAM W., Professor and Head, Department of English, Kansas State College, Manhattan, Kans. 1929
DAVIS, HARMER E., Instructor in Civil Engineering, University of California, Berkeley, Calif. 1933
DAVIS, HARVEY N., President and Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J. ... 1929
DAVIS, HOWARD L., Director of Technical Employment and Training, New York Telephone Co., 140 West Street, New York City 1929
DAVIS, RAYMOND E., Professor of Civil Engineering, University of California, Berkeley, Calif. 1913
DAVIS, ROLAND P., Dean, College of Engineering, West Virginia University, Morgantown, W. Va. 1932
DAVIS, WILLIAM C., Assistant Professor of Electrical Engineering, Fenn College, Cleveland, Ohio 1930
DAWES, CHESTER L., Associate Professor of Electrical Engineering, Harvard University, Cambridge, Mass. 1915
DAWES, LYMAN M., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1926
DAWLEY, E. R., Professor of Applied Mechanics, Kansas State College, Manhattan, Kans. 1926
DAWSON, E. P., Assistant Professor of Mechanical Engineering, University of Oklahoma, Norman, Okla. 1932
DAWSON, F. M., Professor of Hydraulics and Sanitary Engineering, University of Wisconsin, Madison, Wis. 1923

DEARBORN, R. H., Professor of Electrical Engineering, Oregon Agricultural College, Corvallis, Ore. 1917

DE BAUFRE, WM. L., Chairman, Department of Applied Mechanics and Engineering Drawing, University of Nebraska, Lincoln, Nebr. 1920

DECKER, ARTHUR J., Professor of Sanitary Engineering, University of Michigan, Ann Arbor, Mich. 1926

DEGLER, HOWARD E., Professor of Mechanical Engineering, University of Texas, Austin, Texas 1930

DE LA BARRE, CECIL F., Instructor in English, Virginia Polytechnic Institute, Blacksburg, Va. 1931

DELAY, FREDERIC A., General Delivery, Las Vegas, Nev. 1909

DELL, GEORGE H., Instructor in Civil Engineering, University of Illinois, Urbana, Ill. 1932

DELLER, RUSSEL A., Educational Department, Bell Telephone Laboratories, 463 West Street, New York, N. Y. 1931

DEMOREST, D. J., Professor of Metallurgy, The Ohio State University, Columbus, O. 1913

DENNISON, B. C., Professor of Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1926

DENT, JOHN A., Professor and Head, Department of Mechanical and Aeronautical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1911

DENUE, WILLIAM R., Professor of Civil Engineering, Manhattan College, New York, N. Y. 1931

DERBY, FRANK H., Associate Professor of Civil Engineering, Washington University, St. Louis, Mo. 1922

DERICKSON, DONALD, Professor of Civil Engineering, Tulane University of La., New Orleans, La. 1922

DERLETH, CHAS., JR., Professor of Civil Engineering and Dean of the College of Engineering, University of California, Berkeley, Calif. 1904

DEVINE, JAMES J., Assistant Professor of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1930

DIBERT, HERBERT M., Secretary and Treasurer, W. & L. E. Gurley, Troy, N. Y. 1913

DICKINSON, LEONARD P., Professor of Electrical Engineering, University of Vermont, Burlington, Vt. 1914

DIEDERICHS, HERMAN, Director, Sibley School of Mechanical Engineering and Professor of Experimental Engineering, Cornell University, Ithaca, N. Y. 1915

DIEFENDORF, ADELBERT, Associate Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1922

DIEMER, HUGO, Director, Management Courses and Personnel, La Salle Extension University, Chicago, Ill. 1902

DIETRICH, JOHN J., Instructor in Woodshop Pattern Making, Purdue University, Lafayette, Ind. 1922

DIETZ, J. W., Superintendent, Industrial Relations, Western Electric Co., Inc., Kearny Works, 100 Central Avenue, Kearny, N. J. 1911

DILLINGHAM, HARLEY C., Professor of Electrical Engineering, A. & M. College of Texas, College Station, Texas 1929

DIMICK, CHESTER E., Professor of Mathematics, U. S. Coast Guard Academy, New London, Conn. 1933

DIRKS, HENRY B., Dean of Engineering, Michigan State College, East Lansing, Mich. (*Member of Council, 1932–35.*) 1920

DISQUE, ROBERT C., Dean, Drexel Institute, Philadelphia, Pa. (*Member of Council, 1928–31.*) 1927

DISTLER, THEODORE A., Director of Admissions and Student Personnel, New York University, New York City 1928

DIX, L. E., Professor of Mathematics, Norwich University, Northfield, Vt. 1917

DIXON, SOLON, Instructor in Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1929

DIXON, TOD G., Instructor in Chemical Engineering, Pratt Institute, Brooklyn, N. Y. 1932

DOBBS, F. E., Principal, Wentworth Institute, Boston, Mass. 1912

DODDS, JOHN S., Associate Professor of Civil Engineering, Iowa State College, Ames, Iowa 1928

DODGE, H. L., Director, School of Engineering Physics, Dean, Graduate School, University of Oklahoma, Norman, Okla..... 1919

DODGE, JOHN F., Professor of Petroleum Engineering, University of Southern California, Los Angeles, Calif. 1933

DOERINGSFELD, HARRY A., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1932

DOGGETT, L. A., Professor of Electrical Engineering, Pennsylvania State College, State College, Pa. 1914

DOHERTY, R. E., Dean, School of Engineering, Professor of Electrical Engineering, Yale University, New Haven, Conn. (*Member of Council, 1930–33.*) 1923

DOLAND, JAMES J., Associate Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1927

DOLL, ALFRED W., Instructor in Physical Elements of Engineering, Pratt Institute, Brooklyn, N. Y. 1926

DOLVE, R. M., Dean of Engineering, North Dakota Agricultural College, Fargo, N. D. 1926

DOMONOSKE, ARTHUR B., Executive Head, Department of Mechanical Engineering, Stanford University, Stanford University, Calif. 1913

DONAHUE, THOMAS L., Institute Editor, Brooklyn Polytechnic Institute, Brooklyn, N. Y. 1932

DONNELL, PHILIP S., Dean, Division of Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1927

DONOVAN, EDWARD T., Assistant Professor of Mechanical Engineering, University of New Hampshire, Durham, N. H. 1929

DOOLEY, C. R., Manager, Personnel and Training, Socony-Vacuum Corp., 26 Broadway, New York, N. Y. (*Member of Council, 1929–32.*) 1907

DOOLITTLE, JESSE S., Assistant Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. 1929

DOREMUS, HAL C., Head, Department of Engineering, John Tarleton Agricultural College, Stephenville, Texas 1923

DORRANS, J. M., Supt., Engineering Shops Labs., Assistant Professor of Mechanical Practice, University of Wisconsin, Madison, Wis. 1927

DORROH, J. H., Professor and Head, Department of Civil Engineering, University of New Mexico, Albuquerque, N. Mex. 1917

DOSTAL, BERNARD F., Assistant Professor of Mathematics, University of Florida, Gainesville, Fla. 1923

DOTY, L. DONALD, 403, The Alameda, Middletown, Ohio 1930

DOUGHTIE, VENTON L., Assistant Professor of Mechanical Engineering, Texas Technological College, Lubbock, Texas 1930

DOUGLAS, EARL C., Instructor in Engineering, Joilet Junior College, Joliet, Ill. 1930

DOUGLAS, JOHN A., Instructor in Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1930

DOUGLAS, J. F. H., Associate Professor of Electrical Engineering, Marquette University, Milwaukee, Wis. 1910

DOUGLAS, MALCOLM S., Assistant Professor of Civil Engineering, Case School of Applied Science, Cleveland, Ohio 1925

DOW, WILLIAM G., Assistant Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1929

DOWDELL, R. L., Professor of Metallography, University of Minnesota, Minneapolis, Minn. 1932

DOWNARD, RICHARD W., Instructor in Mechanical Engineering, Texas A. & M. College, College Station, Texas 1932

DOWNING, LEWIS K., Associate Professor of Civil Engineering, Howard University, Washington, D. C. 1929

DOWNING, RODERICK L., Associate Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1926

DOYLE, FRANK B., Experimental and Development Engineer, Ingersoll-Rand Company, Phillipsburg, N. J. 1925

DRAFFIN, JASPER O., Associate Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1917

DREESE, ERWIN, Professor and Chairman, Department of Electrical Engineering, The Ohio State University, Columbus, Ohio 1929

DRIFTMIER, RUDOLPH H., Professor and Head, Dept. of Agricultural Engineering, University of Georgia, Athens, Ga. 1932

DRISKO, W. J., Professor of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 1923
DRUCKER, ARTHUR E., Dean, School of Mines and Geology, Washington State College, Pullman, Wash. 1922
DRUM, MARTIN L., Professor of Surveying, Bucknell University, Lewisburg, Pa. 1925
DRUMMOND, GARRETT B., Assistant Professor of Mathematics, Oklahoma A. & M. College, Stillwater, Okla. 1930
DRURY, CHARLES W., Manager, Deloro Research Laboratories, 521 Bloor Building, Toronto, Canada 1933
DUCKERING, W. E., Professor of Civil Engineering; Head of Dept., University of British Columbia, Vancouver, B. C.; Eastsound, Wash. 1917
DUDLEY, A. M., Engineering Supervisor of Development and Education, Westinghouse E. and M. Co., East Pittsburgh, Pa. (*Member of Council, 1931–34.*) 1926
DUDLEY, SAMUEL W., Strathcona Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1921
DUFF, ALEXANDER W., Professor of Physics, Worcester Polytechnic Institute, Worcester, Mass. 1921
DUFF, C. M., Professor of Applied Mechanics, University of Nebraska, Lincoln, Nebr. 1912
DUFFEY, C. F., Professor of Electrical Engineering, University of Porto Rico, Box 143, Mayaguez, P. R. 1916
DUKES, R. G., Dean of Graduate School, Purdue University, Lafayette, Ind. 1907
DULING, HUGO B., Associate Professor of Electrical Engineering, Georgia School of Technology, Atlanta, Ga. 1933
DUMBLE, WILSON R., Instructor in English, The Ohio State University, Columbus, Ohio 1932
DUNHAM, EARL M., Assistant Professor of Engineering Drawing and Descriptive Geometry, University of Maine, Orono, Maine. 1930
DUNHAM, HEBER, Professor of Engineering Drawing and Descriptive Geometry, New York University, New York, N. Y. 1914
DUNKIN, WILLIAM V., Professor of Mechanical Engineering, Georgia School of Technology, Atlanta, Ga. 1924
DUNSTAN, GILBERT H., Assistant Professor of General Engineering, University of Southern California, Los Angeles, Calif. .. 1928
DUPLANTIER, DONALD A., Assistant Professor of Structural Engineering, University of Alabama, Tuscaloosa, Ala. 1930
DUPRIEST, JOHN R., Professor and Head, Department of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1919
DURAND, W. F., Professor Emeritus of Mechanical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1899
DURKEE, FRANK W., Professor of Chemistry in charge of Dept., Tufts College, Tufts College, Mass. 1926

DURKEE, P. W., Associate Professor of Mathematics and Physics, Texas College of Mines and Metallurgy, El Paso, Texas 1932
DURLAND, M. A., Professor of Machine Design, Assistant Dean, Kansas State College, Manhattan, Kans. 1926
DURST, ROSS C., Professor of Civil Engineering, University of Akron, Akron, O. 1918
DUVALL, W. CLINTON, Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1919
DYBLE, JOHN H., Instructor in Applied Mechanics, Case School of Applied Science, Cleveland, Ohio 1924
DYCHE, H. E., Professor and Head of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914
DYER, FREDERICK C., Associate Professor of Mining Engineering, University of Toronto, Toronto, Ont., Canada 1913
DYSART, P. M., Teacher of Physics, Schenley High School, Pittsburgh, Pa. 1911
EARLE, CHESTER R., 10 So. La Salle Street, Chicago, Ill. 1922
EARLE, RALPH, President, Worcester Polytechnic Institute, Worcester, Mass. 1925
EARLE, S. B., Dean of Engineering, Director of the Engineering Experiment Station, Clemson Agricultural College, Clemson College, S. C. (*Member of Council, 1927–30.*) 1912
EARNEST, G. BROOKS, Instructor in Civil Engineering, Case School of Applied Science, Cleveland, Ohio 1933
EASTMAN, A. S., Professor of Chemistry, University of Delaware, Newark, Del. 1932
EASTON, WILLIAM H., Instructor in Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1931
EATON, PAUL B., Professor and Head, Department of Mechanical Engineering, Lafayette College, Easton, Pa. 1931
EBAUGH, NEWTON C., Assistant Professor of Mechanical Engineering, Georgia School of Technology, Atlanta, Ga. 1931
EBAUGH, W. C., Professor of Chemistry, Denison University, Granville, Ohio 1908
ECKEL, C. L., Professor and Head, Department of Civil Engineering, University of Colorado, Boulder, Colo. 1914
ECKHARD, G. F., Dean, College of Engineering, University of Vermont, Burlington, Vt. 1910
ECKHARDT, CARL J., JR., Adjunct Professor of Mechanical Engineering, University of Texas, Austin, Texas 1929
ECKLE, JOHN N., Assistant Professor of Engineering Drawing, Yale University, New Haven, Conn. 1928
EDDY, C. L., Professor and Head, Department of Engineering Administration, Case School of Applied Science, Cleveland, O... 1910
EDGAR, R. F., Assistant Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1920

EDISON, OSKAR E., Associate Professor of Electrical Engineering, University of Nebraska, Lincoln, Nebr. 1922
EDMANDS, S. S., Director, School of Science and Technology, Pratt Institute, Brooklyn, N. Y. (*Member of Council, 1927–30.*) .. 1903
EDWARDS, JESSE B., Professor of Physics, Georgia School of Technology, Atlanta, Ga. 1932
EDWARDS, WILLIAM W., Head, Steam Engineering Department, Wentworth Institute, Boston, Mass. 1929
EGGERS, HENRY C. T., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1922
EGILSRUD, FRIDTJOF S., Head, Mechanical Laboratory, Pratt Institute, Brooklyn, N. Y. 1928
EGRY, C. ROBERT, Instructor in Machine Design, Purdue University, Lafayette, Ind. 1930
EIDMANN, FRANK L., Professor of Mechanical Engineering, Columbia University, New York, N. Y. (*Member of Council, 1931–4.*) 1925
EKSTRAND, K. H., Instructor in Mechanical Engineering, State University of Iowa, Iowa City, Iowa 1923
ELBIN, GUY H., Deputy County Surveyor, Ada, Ohio 1924
ELGIN, JOSEPH C., Assistant Professor of Chemical Engineering, Princeton University, Princeton, N. J. 1931
ELIZONDA, Y. A., Assistant Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1928
ELL, CARL S., Vice President and Dean, Northeastern University, Boston, Mass. 1917
ELLENWOOD, FRANK O., Professor of Heat Power Engineering, Cornell University, Ithaca, N. Y. 1929
ELLIOTT, BEN. G., Professor of Mechanical Engineering, University of Wisconsin, Madison, Wis. (*Member of Council, 1931–34.*) 1912
ELLIOTT, D. S., Professor of Physics, Tulane University, New Orleans, La. 1919
ELLIOTT, EDWARD C., President, Purdue University, Lafayette, Ind. 1928
ELLIS, W. T., Professor of Power Engineering and Machine Design, Supervisor of Power Plant, Virginia Polytechnic Institute, Blacksburg, Va. 1910
ELY, JOHN A., Professor of Engineering, Dean, College of Arts and Science, St. John's University, Shanghai, China..... 1914
EMERSON, L. A., Educational Director, Y. M. C. A., 5 West 63rd Street, New York City 1929
EMERSON, WALTER D., Professor of Engineering Mechanics, Norwich University, Northfield, Vt. 1920
EMMONS, WALTER J., Associate Professor of Highway Engineering, University of Michigan, Ann Arbor, Mich. 1923
EMRICK, PAUL S., Electrical Engineer, Lafayette, Ind. 1914

ENDSLEY, L. E., Lecturer in Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1907

ENGER, M. L., Professor of Mechanics and Hydraulics, Head, Dept., Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. (*Member of Council, 1921–4.*) 1907

ENO, FRANK H., Research Professor of Highway Engineering, The Ohio State University, Columbus, O. (222 16th Ave.) 1907

ENSIGN, N. E., Associate Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1915

ENTWISLE, FRANK N., Professor of Physics, College of Engineering, Newark, N. J. 1927

ERIKSEN, EDWARD L., Professor and Head, Department of Engineering Mechanics, University of Michigan, Ann Arbor, Mich. 1921

ERNST, GEORGE C., Instructor in General Engineering, Iowa State College, Ames, Iowa 1930

ERNST, ROBERT C., Associate Professor of Chemical Engineering, University of Louisville, Louisville, Ky. 1932

ERSKINE, HARRY E., Instructor in Mathematics, Franklin Union, Boston, Mass. 1928

ESCHBACH, OVID W., Special Assistant, Personnel Dept., American Tel. and Tel. Co., 195 Broadway, New York City..... 1926

EVANS, F. H., Supervisor of Mechanical Courses, Rochester Athenaeum and Mechanics Institute, Rochester, N. Y. 1907

EVANS, H. S., Dean, College of Engineering, Professor of Electrical Engineering, University of Colorado, Boulder, Colo. (*President, 1931–32; Vice President, 1920–1; Member of Council, 1931–.*) 1905

EVANS, WESTON S., Associate Professor of Civil Engineering, University of Maine, Orono, Me. 1922

EVERETT, HAROLD A., Professor and Head, Dept., Mechanical Engineering, Pennsylvania State College, State College, Pa. 1924

EVERITT, WILLIAM L., Associate Professor of Electrical Engineering, The Ohio State University, Columbus, Ohio..... 1927

EVINGER, M. I., Professor of Civil Engineering, University of Nebraska, Lincoln, Neb. 1926

EWING, D. D., Professor of Electrical Railway Engineering, Purdue University, Lafayette, Ind. 1910

EYRE, THOMAS T., Professor of Mechanical Engineering, University of Southern California, Los Angeles, Calif. 1909

FABEL, DONALD C., Associate Professor of Mechanical Engineering, Fenn College, Cleveland, Ohio 1930

FAHY, FRANK E., Assistant Professor of Civil Engineering, Antioch College, Yellow Springs, Ohio 1932

FAIG, JOHN T., President, Ohio Mechanics Institute, Cincinnati, O. (*Vice President, 1918–9.*) 1899

FAIR, GORDON M., Associate Professor of Sanitary Engineering, Harvard Engineering School, Cambridge, Mass. 1926

FAIRBANKS, OSCAR W., Assistant Professor of Drawing and Design, Michigan State College, East Lansing, Mich. 1929

FAIRBURN, A. J. B., Instructor in Electrical Engineering, Cooper Union, New York City 1927

FAIRES, VIRGIL M., Professor of Mechanical Engineering, A. and M. College of Texas, College Station, Texas..... 1925

FAIRFIELD, JOHN G., Professor of Heat Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

FAIRMAN, SEIBERT, Associate Professor of Applied Mechanics, Purdue University, Lafayette, Ind. 1921

FANTOLI, GUADENZIO, R. Commissary Director of the Royal Politecnico, Milano, Italy 1932

FARNHAM, CHARLES S., Associate Professor of Civil Engineering, Yale University, New Haven, Conn. 1908

FARNHAM, GEORGE W., Manager, College Dept., International Textbook Co., Scranton, Pa. 1933

FARNHAM, WALTER E., Professor of Graphics, Tufts College, Tufts College, Mass. (*Member of Council, 1930–33.*) 1919

FARQUHARSON, F. B., Assistant Professor of Civil Engineering, University of Washington, Seattle, Wash. 1928

FARRAR, CLYDE L., Associate Professor of Electrical Engineering, University of Oklahoma, Norman, Okla. 1924

FARRELL, F. D., President, Kansas State College, Manhattan, Kans. 1928

FARRIS, MARSHALL E., Dean of Engineering, Professor of Mechanical Engineering, University of New Mexico, Albuquerque, N. M. 1925

FAY, IRVING W., Professor of Chemistry, Brooklyn Polytechnic Institute, Brooklyn, N. Y. 1931

FELGAR, J. H., Dean of the College of Engineering, University of Oklahoma, Norman, Okla. (*Member of Council, 1920–3.*)... 1912

FELKER, EVERETT J., Instructor in Civil Engineering, University of Maine, Orono, Me. 1922

FENTON, CHAUNCEY L., Professor, Dept. of Chemistry and Electricity, United States Military Academy, West Point, N. Y. 1930

FENTON, FREDERICK C., Professor of Agricultural Engineering, Kansas State College, Manhattan, Kans. 1928

FENWICK, HAROLD H., Assistant Professor of Engineering Drawing, University of Louisville, Louisville, Ky. 1927

FERGUSON, O. J., Professor of Electrical Engineering, and Dean, College of Engineering, Director, Engineering Experiment Station, University of Nebraska, Lincoln, Nebr. (*Vice President, 1923–4.*) 1908

FERGUSON, PHIL M., Associate Professor of Civil Engineering, University of Texas, Austin, Texas 1930

FERNALD, ERNEST M., Associate Professor of Mechanical Engineering, Lafayette College, Easton, Pa. 1927

FERNALD, ROBERT H., Dean, Towne Scientific School, Director, Department of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. (*Member of Council, 1914–7.*) ... 1899

FERNOW, BERNHARD E., Professor of Mechanical Engineering, Clemson College, Clemson College, S. C. 1929

FERRETTI, ALFRED J., Associate Professor of Mechanical Engineering, Northeastern University, Boston, Mass. 1925

FESSENDEN, E. A., Professor and Head of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1912

FEUSSE, ELMER G., Professor of Chemistry, Southwestern Louisiana Institute, Lafayette, La. 1924

FIELD, FLOYD, Professor of Mathematics, Dean of Men, Georgia School of Technology, Atlanta, Ga. 1919

FIELD, LAWRENCE N., Professor of Machine Design, Michigan State College, East Lansing, Mich. 1927

FIFE, SAMUEL T., Associate Professor and Acting Head, Dept. of Mechanical and Electrical Engineering, University of Louisville, Louisville, Ky. 1927

FILIPETTI, GEORGE, Professor of Economics and Business Administration, University of Minnesota, Minneapolis, Minn. 1931

FILLMORE, HERBERT W., Instructor in Mechanical Engineering, Evansville College, Evansville, Ind. 1929

FINCH, F. R., Associate Professor of Mechanism and Engineering Drawing, University of Michigan, Ann Arbor, Mich. 1913

FINCH, JAMES K., Professor of Civil Engineering and Director of Summer School of Surveying, Columbia University, New York City 1925

FINCH, JOHN W., Dean, School of Mines, University of Idaho, Moscow, Idaho 1930

FINDLEY, WARREN G., Assistant in Psychology, Cooper Union, New York City 1929

FINNEGAN, JOSEPH B., Director, Research and Testing; Professor and Head, Dept. of Fire Protection Engineering, Armour Institute of Technology, Chicago, Ill. (*Member of Council, 1933–6.*) 1926

FISH, F. A., Professor of Electrical Engineering, Iowa State College, Ames, Ia. (*Member of Council, 1923–6.*) 1905

FISH, J. C. L., Executive Head, Department of Civil Engineering, Leland Stanford Junior University, Stanford University, Calif. (*Member of Council, 1921–4.*) 1919

FISHER, BENJAMIN A., Associate Professor of Electrical Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1932

FISHER, HILBERT A., Associate Professor of Mathematics, North Carolina State College, Raleigh, N. C. 1930

FISHER, JAMES, Professor and Head, Dept. of Mathematics and Physics, Michigan College of Mines and Technology, Houghton, Mich. 1899

FISHMAN, SOLOMON, Assistant Professor of Industrial Engineering, Newark College of Engineering, Newark, N. J. 1928
FISKE, DAVID L., Secretary, American Society of Refrigerating Engineers, 37 West 39th Street, New York, N. Y. 1930
FITTERER, J. C., Professor and Head, Dept. of Mathematics, Colorado School of Mines, Golden, Colo. 1912
FITTZ, RAYMOND U., Assistant Professor of Mechanical Engineering, Tufts College, Tufts College, Mass. 1922
FITZGERALD, THOMAS W., Professor and Head, Department of Electrical Engineering, Georgia School of Technology, Atlanta, Ga. 1928
FLANDERS, ROGER L., Associate Professor of Civil Engineering, A. & M. College, Stillwater, Okla. 1927
FLATH, EARL H., Dean, School of Engineering, Southern Methodist University, Dallas, Texas 1925
FLEMING, ARTHUR P. M., Manager, Research and Education Dept., Metropolitan-Vickers Electrical Co., Manchester, England.... 1922
FLEMING, BURTON P., Dean of Engineering, New Mexico A. & M. College, State College, N. M. 1926
FLEMING, DAVID W., Instructor in Mechanical Engineering, Texas A. & M. College, College Station, Texas 1932
FLEMING, ROBINS, Structural Engineer, American Bridge Co., 71 Broadway, New York City 1921
FLINNER, ARTHUR O., Instructor in Mechanical Engineering, Kansas State College, Manhattan, Kansas 1931
FLODIN, JOHN, Assistant Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1924
FLOWERS, A. E., Engineer in charge of Development, The DeLaval Separator Co., Poughkeepsie, N. Y. 1910
FOADEMWALT, FRED, Instructor in Physical Science, Parsons Junior College, Parsons, Kans. 1932
FOCKE, THEODORE M., Dean of Faculty, Kerr Professor of Mathematics, Case School of Applied Science, Cleveland, O. (*Member of Council, 1928–31.*) 1907
FOLK, SAMUEL B., Assistant Professor of Mechanics, The Ohio State University, Columbus, Ohio 1921
FOLTZ, LEROY S., Head, Dept. of Electrical Engineering, Michigan State College, East Lansing, Mich. 1918
FOOTE, JAMES H., Supervising Engineer, Commonwealth & Southern Corp., Jackson, Mich. 1933
FORD, ARTHUR R., Assistant Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1931
FOSS, FRED E., Professor of Civil Engineering, Cooper Union, New York, N. Y. 1893
FOSS, MARTIN M., President, McGraw-Hill Book Co., Inc., 330 West 42d St., New York, N. Y. 1909
FOSTER, E. S., Electrical Engineer, Electric Controller & Mfg. Co., Cleveland; R. D. 4, Warren, Ohio 1911

FOSTER, JOHN M., Associate Professor of Aeronautical Engineering, North Carolina State College of A. & E., College Station, Raleigh, N. C. 1919

FOSTER, WM. ARTHUR, Assistant Professor of Rural Architecture, University of Illinois, Urbana, Ill. 1927

FOURAKER, LEROY L., Associate Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1924

FOURAKER, RAYMOND S., Professor of Electrical Engineering, North Carolina State College, Raleigh, N. C. 1929

FOX, FREDERICK H., Associate Professor of Civil Engineering, Tulane University of Louisiana, New Orleans, La. 1922

FOX, LESTER H., Instructor in Electrical Engineering, Mississippi State College, State College, Miss. 1931

FOX, ROBERT M., Professor of Civil Engineering, University of Southern California, Los Angeles, Calif. 1932

FOXWELL, WM. H., Route 1, Box 171, Oroville, Calif. 1932

FRAIM, PARKE B., Assistant Professor of Physics, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1926

FRAME, FLOYD H., Professor of Electrical Engineering, Missouri School of Mines, Rolla, Mo. 1924

FRAMPTON, GEORGE O., Industrial Management Counsellor, Mayville, N. Y. 1921

FRANCIS, CHARLES W., Assistant Professor of Metallurgical Engineering, Fenn College, Cleveland, Ohio 1930

FRANKLAND, EDWIN 1930

FRASER, I. MATHESON, Professor of Mechanical Engineering, University of Saskatchewan, Saskatoon, Sask. 1929

FRAZIER, FORREST F., Professor of Civil Engineering, Kansas State College, Manhattan, Kans. 1929

FRAZIER, RICHARD H., Assistant Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1927

FREEL, WILFRED I., Instructor in Civil Engineering, Purdue University, Lafayette, Ind. 1928

FREEMAN, E. H., Professor and Head, Department of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1909

FREEMAN, MATHEW L., Professor and Head, Department of Drawing, Mississippi State College, State College, Miss. 1928

FREEMAN, W. EDWIN, Assistant Dean, College of Engineering, Head, Department of Electrical Engineering, University of Kentucky, Lexington, Ky. 1911

FREIRE, V. DA SILVA, Professor of Technique of Materials, Dean, Polytechnic School of State, Sao Paulo, Brazil 1929

FRENCH, ARTHUR W., Professor of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1900

FRENCH, R. DEL., Professor of Highway and Municipal Engineering, McGill University, Montreal, Canada 1929

FRENCH, ROBERT W., Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1920

FRENCH, THOS. E., Professor of Engineering Drawing, The Ohio State University, Columbus, O. (*Member of Council, 1916–9; Vice President, 1927–8.*) 1899

FREUND, C. J., Dean, College of Engineering, University of Detroit, Detroit, Mich. 1932

FREY, EMIL A., Assistant Professor of Modern Languages, Rensselaer Polytechnic Institute, Troy, N. Y. 1928

FREY, GEORGE J., Head, Department of Mechanical Drawing, Ohio Mechanics Institute, Cincinnati, Ohio 1930

FRIGON, AUGUSTIN, Dean, Ecole Polytechnique, Montreal, Canada, (*Member of Council, 1930–33.*) 1929

FROCHT, MAX M., Associate Professor of Mechanics, Carnegie Institute of Technology, Pittsburgh, Pa. 1928

FRY, HOWARD M., Associate Professor of Physics and Electricity, Franklin and Marshall College, Lancaster, Pa. 1925

FRY, HORACE P., Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1914

FRY, THORNTON C., Mathematical Research Engineer, Bell Telephone Laboratories, Inc., 463 West Street, New York City... 1929

FULLAN, M. T., Professor of Machine Design and Drawing, Alabama Polytechnic Institute, Auburn, Ala. 1915

FULLER, A. H., Professor and Head of Civil Engineering, The Iowa State College, Ames, Ia. (*Member of Council, 1914–7.*) 1901

FULLER, C. E., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass..... 1907

FULLER, LEONARD F., Professor of Electrical Engineering and Chairman of Dept., University of California, Berkeley, Calif. 1930

FULMER, HERMAN K., Associate Professor of Mathematics, Georgia School of Technology, Atlanta, Ga. 1932

FULTON, CHARLES H., Director, Missouri School of Mines and Metallurgy, University of Missouri, Rolla, Mo..... 1923

FULTON, W. THOMPSON, Associate Professor of Mechanical Engineering, University of Vermont, Burlington, Vt. 1930

FURIA, JOHN J., Professor of Industrial Engineering and Director of Personnel, Manhattan College, New York, N. Y.... 1919

FURMAN, FRANKLIN DER., Professor of Machine Design, Dean of College, Stevens Institute of Technology, Hoboken, N. J. 1907

FURR, M. W., Professor of Civil Engineering, Kansas State College, Manhattan, Kans. 1917

FUSSELL, LEWIS, Professor of Electrical Engineering, Chairman, Division of Engineering, Swarthmore College, Swarthmore, Pa. 1921

GALLALEE, JOHN M., Professor of Mechanical Engineering, University of Alabama, University, Ala. 1930

GAMBLE, WILLIAM H., Assistant Professor of Electrical Engineering, South Dakota State College, Brookings, S. D. 1931

GARCELON, WARREN R., Teacher of Applied Mathematics and Mechanical Drawing, Vallejo Senior High School, Vallejo, Calif. 1931

GARDNER, ROBERT A., Instructor in Civil Engineering, Bucknell University, Lewisburg, Pa. 1930

GARLAND, CLYNE F., Assistant Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1931

GARMAN, HARRY O., Consulting Engineer, 836 Ind. Pyth. Bldg., Indianapolis, Ind. 1907

GARRAN, FRANK W., Professor of Civil Engineering, Acting Dean, Thayer School of Civil Engineering, Dartmouth College, Hanover, N. H. 1925

GARRETT, SEYMOUR S., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1922

GARST, HARVEY O., Professor of Civil Engineering, New Mexico College of A. & M. Arts, State College, N. M. 1929

GAUM, CARL G., Professor of University Extension, Rutgers University, New Brunswick, N. J. 1928

GAUSS, HENRY F., Head, Dept. of Mechanical Engineering, University of Idaho, Moscow, Ida. 1926

GAVETT, JOSEPH W., Professor and Head, Department of Mechanical Engineering, University of Rochester, Rochester, N. Y... 1924

GAY, HAROLD, J., Assistant Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. 1930

GEBHARDT, GEORGE F., Professor of Mechanical Engineering, Armour Institute of Technology, Chicago, Ill. 1927

GEHRIG, ARTHUR G., Instructor in Engineering, Pasadena Junior College, Pasadena, Calif. 1929

GEIGER, JOHN W., Assistant Professor of Mechanical Engineering, Purdue University, Lafayette, Ind. 1923

GEORGE, S. G., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1914

GEORGE, VINCENT C., Associate in Mathematics, Los Angeles Junior College, Los Angeles, Calif. 1931

GERARDI, JASPER, Instructor in Descriptive Geometry and Surveying, University of Detroit, Detroit, Mich. 1929

GETCHELL, EDWARD L., Associate Professor of Mechanical Engineering, University of New Hampshire, Durham, N. H..... 1921

GIBBS, RUSSELL E., Assistant Professor of Steam Engineering, University of Minnesota, Minneapolis, Minn. 1931

GIESECKE, F. E., Director, Engineering Experiment Station, Texas A. & M. College, College Station, Texas. (*Member of Council, 1921–4.*) 1893

GIESEY, PAUL M., Associate Professor of Chemistry, in charge, Dept. of English, Newark College of Engineering, Newark, N. J. 1932

GILCHRIST, J. F., Vice President, Commonwealth Edison Co., 72 W. Adams Street, Chicago, Ill. 1911

GILKEY, HERBERT J., Professor and Head, Department of Theoretical and Applied Mechanics, Iowa State College, Ames, Iowa 1922

GILL, JAMES H., Professor of Machine Construction, Supt., Engineering Shops, West Virginia University, Morgantown, W. Va. 1929

GILMOUR, WALTER A., Professor of Coordination, University of Akron, Akron, O. 1922

GINGRICH, R. F., Associate Professor of Engineering Drawing, Kansas State College, Manhattan, Kans. 1932

GIRVIN, HARVEY F., Assistant Professor of Applied Mechanics, Purdue University, Lafayette, Ind. 1927

GLADSON, W. N., Vice President, Dean, College of Engineering, Director, Engineering Experiment Station, University of Arkansas, Fayetteville, Ark. (*Member of Council, 1933–36.*)... 1903

GLEASON, G. SCOTT, Instructor in Engineering Drawing, Yale University, New Haven, Conn. 1927

GLENN, BURDETTE, Assistant Professor of Civil Engineering, Oregon State College, Corvallis, Ore. 1932

GLENN, EDGAR W., Associate Professor of Engineering Drawing, A. & M. College of Texas, College Station, Texas 1932

GLENN, HOWARD E., Associate Professor of Civil Engineering, Clemson Agricultural College, Clemson College, S. Car. 1929

GODEKE, HARRY F., Professor of Mechanical Engineering, Texas Technological College, Lubbock, Texas 1930

GODFREY, WILLIAM P., Instructor in English, University of Detroit, Detroit, Mich. 1929

GOKHALE, GANDGAHAR V., Principal, N. E. D., Civil Engineering College, Karacki, Bombay, India 1924

GOOD, MERRILL R., Professor and Head, Dept. of General Engineering, Montana State College, Bozeman, Mont. 1933

GOODALE, S. L., Professor and Head, Dept. of Metallurgy, University of Pittsburgh, Pittsburgh, Pa. 1924

GOODRICH, ARTHUR L., Associate Professor of Drawing and Descriptive Geometry, Massachusetts Institute of Technology, Cambridge, Mass. 1930

GOODRICH, RALPH D., Professor of Civil Engineering, University of Wyoming, Laramie, Wyo. 1929

GORHAM, ROBERT C., Assistant Professor of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1925

GOTAAS, HAROLD B., Assistant Professor of Civil Engineering, University of South Dakota, Vermillion, S. D. 1932

GOUGH, ACHILLES C., Professor of Mechanical Engineering, Director of Division, University of Idaho, Southern Branch, Pocatella, Ida. 1922

GOVIER, CHARLES E., Professor of Electrical Engineering, Pennsylvania State College, State College, Pa. 1930
GRAHAM, EUGENE C., Associate Professor of Shop Practice, Kansas State College, Manhattan, Kansas 1929
GRAHAM, WM. P., Vice Chancellor, Syracuse University, 1205 Harrison Street, Syracuse, N. Y. 1912
GRAM, LEWIS M., Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1913
GRAMSTORFF, EMIL A., Associate Professor of Civil Engineering, Northeastern University, Boston, Mass. 1926
GRANDLIENARD, EDWARD T., Professor of Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1919
GRANDY, LEWIS S., Eden, Wyo. 1927
GRANDY, MICHAEL, Professor and Head, Dept. of Physics, University of Dayton, Dayton, Ohio 1928
GRANT, EUGENE L., Associate Professor of Civil Engineering, Stanford University, Stanford University, Calif 1925
GRANT, ROBERT J., Assistant Professor of Shop and Mechanic Arts, State Teachers College, Oshkosh, Wis. 1930
GRANTHAM, GUY E., Assistant Professor of Physics, Cornell University, Ithaca, N. Y. 1928
GRATON, LOUIS C., Professor of Mining Geology, Harvard University, Cambridge, Mass. 1925
GRAY, ELLSWORTH S., Associate Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1931
GRAY, HENRY C., Instructor in Machine Design, Rose Polytechnic Institute, Terre Haute, Ind. 1929
GRAY, JOHN C., Associate Professor of Chemistry, U. S. Naval Academy, Annapolis, Md. 1920
GREAVES-WALKER, A. F., Professor and Head, Dept. of Ceramic Engineering, North Carolina State College, Raleigh, N. C. 1925
GREEN, BOYNTON M., Associate Professor of Mechanical Engineering, Stanford University, Stanford University, Calif. 1925
GREENE, ARTHUR M., JR., Dean, School of Engineering, Professor of Mechanical Engineering, Princeton University, Princeton, N. J. (*President, 1919–20; Member of Council, 1906–9; 1914–.*) 1903
GREENSHIELDS, BRUCE D., Professor of Engineering Science, Denison University, Granville, Ohio 1926
GREGORY, W. B., Professor of Experimental Engineering, Tulane University, New Orleans, La. 1907
GREINER, OTTO A., Associate Professor of Modern Languages, Purdue University, Lafayette, Ind. 1922
GRENOBLE, HERBERT S., Associate Professor of Industrial Engineering, Virginia Polytechnic Institute, Manager, V. P. I. in Richmond, Va. 1929

GREVE, F. W., Professor of Hydraulic Engineering, Purdue University, Lafayette, Ind. 1912
GRIDER, RICHARD L., Associate Professor of Mining Engineering and Drawing, University of Kansas, Lawrence, Kans. 1922
GRIFFIN, FRED S., Professor of Mechanical Engineering, University of Akron, Akron, O. 1922
GRIFFITH, D. M., Professor of Civil Engineering, Bucknell University, Lewisburg, Pa. 1924
GRIFFITH, JAMES R., Professor of Structural Engineering, Oregon State Agricultural College, Corvallis, Ore. 1929
GRINTER, LINTON E., Professor of Structural Engineering, A. & M. College of Texas, College Station, Texas 1928
GRISMER, FRANK A., Instructor in English, University of Colorado, Boulder, Colo. 1929
GROAT, B. F., Consulting Engineer, 57 Marion Street, Brookline, Mass. 1889
GRONE, EDWARD A., Instructor in Applied Mechanics, University of Nebraska, Lincoln, Nebr. 1924
GRUMMANN, HERBERT R., Assistant Professor of Mathematics, Washington University, St. Louis, Mo. 1930
GUERIN, FREDERICK J., Instructor in Chemistry, University of Maine, Orono, Me. 1931
GUILD, LAWRENCE R., Professor of Commercial Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1932
GUITERAS, JOSEPH R., 1437 E. Virginia Avenue, Denver, Colo. 1925
GULICK, LEE N., Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1923
GUS, CHARLES E., Associate Professor of Engineering Mechanics, New York University, New York City 1926
GUSE, CLARENCE E., Instructor in Applied Electricity, Los Angeles Junior College, Los Angeles, Calif. 1933
GWIAZDOWSKI, ALEXANDER P., Assistant Professor of Shop Practice, University of Michigan, Ann Arbor, Mich. 1928
HACKLEY, REGINALD A. 1932
HAERTLEIN, ALBERT, Associate Professor of Civil Engineering, Harvard University, Cambridge, Mass. 1929
HAFFORD, W. B., 330 No. Mason Avenue, Chicago, Ill. 1929
HALES, VIRGIL D., Instructor in Civil Engineering, Fenn College, Cleveland, Ohio 1930
HALL, AMY V., Instructor in English, University of Washington, Seattle, Wash. 1925
HALL, B. RUPERT, Associate in Mechanical Engineering, University of Illinois, Urbana, Ill. 1920
HALL, JAMES A., Professor of Mechanical Engineering, Brown University, Providence, R. I. 1914

HALL, RUSSELL A., Associate Professor of Civil Engineering, Union College, Schenectady, N. Y. 1925

HALL, STANLEY G., Instructor in General Engineering Drawing, University of Illinois, Urbana, Ill. 1927

HALL, VORIS B., Assistant Professor of Physics, Bucknell University, Lewisburg, Pa. 1927

HALL, WALTER C., College Employment Representative, Illinois Bell Telephone Company, 212 West Washington Street, Chicago, Ill. 1929

HALL, WESLEY B., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1925

HALL, WILLIAM H., Professor of Civil Engineering, Duke University, Durham, N. C. 1927

HALLIDAY, WILLIAM R., Associate Professor of Machine Design, Stevens Institute of Technology, Hoboken, N. J. 1926

HALLIGAN, CLAIR W., Engineer, American Telephone and Telegraph Co., 195 Broadway, New York City 1925

HALLOCK, J. W., Secretary, General Alumni Association; Lecturer in Industrial Engineering, University of Pittsburgh, Pittsburgh, Pa. 1915

HALSEY, HUGH, Instructor in Physics, Cooper Union, New York City 1933

HAM, C. W., Professor of Machine Design, University of Illinois, Urbana, Ill. 1933

HAMDI, A. F., 1429 Walnut St., Philadelphia, Pa. 1932

HAMILTON, EDW. P., Vice President and Treasurer, John Wiley & Sons, Inc., 440 Fourth Ave., New York, N. Y. 1914

HAMILTON, J. O., Professor of Physics, Kansas State College, Manhattan, Kans. 1910

HAMMOND, H. P., Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. Director of Summer Schools for Engineering Teachers, S. P. E. E. (*Associate Director of Investigations, 1923–29; Member of Council, 1927–30*) 1916

HAMMOND, JOHN HAYS, Engineer, 2221 Kalarama Road, N. W., Washington, D. C. 1925

HAMMOND, ROBERT J., JR. 1930

HANCE, JAMES H., 1236 So. 9 East, Salt Lake City, Utah 1926

HANEY, JILES W., Professor and Chairman, Department of Mechanical Engineering, University of Nebraska, Lincoln, Nebr..... 1916

HANNA, U. S., Professor of Mathematics, Indiana University, Bloomington, Ind. 1915

HANNAFORD, EARLE S., Supervisor of Training, A. T. & T. Co., 914 Concordia Lane, St. Louis, Mo. 1931

HANSEN, EINAR T., Instructor in Steam and Gas Engineering, University of Wisconsin, Madison, Wis. 1930

HANSEN, ARTHUR S., Consulting Actuary, 749 Marion Ave., Highland Park, Ill. 1927

HANSON, THOMAS C., Instructor in Civil Engineering, University of Detroit, Detroit, Mich. 1930

HARBARGER, SADA A., Assistant Professor of English, The Ohio State University, Columbus, Ohio. (*Member of Council, 1926–9.*) 1918

HARDER, OSCAR E., Assistant Director, Battelle Memorial Institute, Columbus, Ohio 1925

HARDGRAVE, JOHN C., Assistant Professor of Mechanical Engineering, Supt. of Shops, Texas Technological College, Lubbock, Texas 1930

HARDING, C. FRANCIS, Head, School of Electrical Engineering, Purdue University, Lafayette, Ind. (*Vice-President, 1930–31; Member of Council, 1918–21; 1930–31.*) 1908

HARDING, GEORGE H., Instructor in Civil Engineering and Mathematics, University of Louisville, Louisville, Ky. 1930

HARGEST, WM. J., Instructor in Mechanical Technology, Pratt Institute, Brooklyn, N. Y. 1931

HARKNESS, DANIEL H., Instructor in Civil Engineering, University of Nebraska, Lincoln, Nebr. 1928

HARLAN, ORLAN K., Consultant in Mechanical Engineering, State College, Pa. 1921

HARLAN, JAMES C., Instructor in Shops, University of Arkansas, Fayetteville, Ark. 1933

HARPER, A. C., President, Wyomissing Polytechnic Institute, Wyomissing, Pa. 1911

HARRELSON, JOHN W., Professor of Mathematics, North Carolina State College, Raleigh, N. C. 1933

HARRINGTON, THOS. H., Professor of Engineering Drafting, Assistant to Dean, Columbia University, New York City..... 1925

HARRINGTON, W. F., Assistant Professor of Engineering, Virginia Polytechnic Institute in Norfolk, Va. 1932

HARRIS, C. L., Professor and Head, Dept. of Architectural Engineering, The Pennsylvania State College, State College, Pa... 1914

HARRIS, HARRY E., Consulting Engineer, 299 Thorne Street, Bridgeport, Conn. 1924

HARRISON, JAMES R., Assistant Dean; Assistant Professor of Physics, Tufts College, Tufts College, Mass. 1933

HARRISON, THOMAS P., Professor of English, North Carolina State College, Raleigh, N. C. 1923

HARTSHORN, WILFRID W., Teacher of Mathematics, Brawley Union High School and Junior College, Brawley, Calif. 1933

HARTENBERG, RICHARD S., Instructor in Mechanics, University of Wisconsin, Madison, Wis. 1930

HARTER, G. A., Professor of Mathematics, University of Delaware, Newark, Del. 1905

HARTIG, HENRY E., Associate Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1922

HASKELL, L. ST. J., Assistant to Vice President, The Bell Telephone Company of Canada, 502 Grosvenor Avenue, Westmount, Quebec, Canada 1925

HASKINS, ELMER E., Instructor in Mathematics, Northeastern University, Boston, Mass. 1932

HASKINS, GEORGE W., Professor of Aeronautical Engineering, Purdue University, Lafayette, Ind. 1931

HASTINGS, HUDSON B., Professor of Industrial Engineering, Yale University, New Haven, Conn. 1928

HATCH, D. ARTHUR, Associate Professor of Mathematics, Lafayette College, Easton, Pa. 1908

HATFIELD, HAROLD D., Professor of Industrial Engineering, Rutgers University, New Brunswick, N. J. 1927

HATT, W. K., Head, School of Civil Engineering and Director of the Materials Testing Laboratory, Purdue University, Lafayette, Ind. (*Member of Council, 1926–9.*) 1895

HAULTAIN, H. E. T., Professor of Mining Engineering, University of Toronto, Toronto, Ont., Canada 1911

HAUSMANN, ERICH, Professor of Physics and Electrical Communication, Polytechnic Institute of Brooklyn, Brooklyn, N. Y... 1926

HAWKINS, GEORGE A., Instructor in Applied Mechanics, Purdue University, Lafayette, Ind. 1930

HAWTHORN, GEORGE E., Assistant Professor of Civil Engineering, University of Washington, Seattle, Wash. 1929

HAY, EARL D., Head, Departments of Mechanical and Industrial Engineering, University of Kansas, Lawrence, Kans. 1915

HAYGOOD, T. F., Assistant Professor of Economics, University of Louisville, Louisville, Ky. 1930

HAZARD, CLIFTON T., Associate Professor of Mathematics, Purdue University, Lafayette, Ind. 1923

HAZELTINE, ALAN, Professor of Physical Mathematics, Stevens Institute of Technology, Hoboken, N. J. 1910

HAZEN, JOHN W., Instructor in Engineering, Los Angeles Junior College, Los Angeles, Calif. 1932

HEACOCK, FRANK A., Head, Dept. of Graphics and Engineering Drawing, Princeton University, Princeton, N. J. 1926

HEALD, HENRY T., Dean of Freshmen, Armour Institute of Technology, Chicago, Ill. 1931

HEANY, ARTHUR G., Manager, Text-Book Dept., D. Van Nostrand Company, 250 4th Avenue, New York, N. Y. 1929

HECK, ROBERT C. H., Professor of Mechanical Engineering, Rutgers University, New Brunswick, N. J. (*Member of Council, 1929–32.*) 1907

HEDRICK, E. R., Professor of Mathematics, University of California at Los Angeles, Calif. (*Member of Council, 1926–9.*) 1910

HEDRICK, WM. A., Head of the Department of Physics of the High and Manual Training Schools, Central High School, Washington, D. C. 1913

HEFFNER, ROY J., Educational Director, Bell Telephone Laboratories, 463 West Street, New York, N. Y. 1930

HEFLIN, S. M., Associate Professor of Physics, Virginia Military Institute, Lexington, Va. 1924

HEHRE, FREDERICK W., Associate Professor of Electrical Engineering, Columbia University, New York City 1926

HEISIG, G. B., Assistant Professor of Inorganic Chemistry, University of Minnesota, Minneapolis, Minn. 1924

HELWIG, WM. F., Associate Professor of Electrical Engineering, Texas Technological College, Lubbock, Texas 1930

HENCK, GEORGE D., Director, Industrial Arts, Pasadena City Schools, Pasadena, Calif. 1933

HENDERSON, JAMES M., Director, Department of Industrial Arts, Tennessee Polytechnic Institute, Cookeville, Tenn. 1930

HENDRICK, T. K. A., Assistant Engineer Designer, Board of Water Supply, City of New York, 58 Forest Avenue, New Rochelle, N. Y. 1921

HENDRICKS, WALTER, Professor and Head, Department of English, Armour Institute of Technology, Chicago, Ill. 1933

HENLINE, HENRY H., National Secretary, American Institute of Electrical Engineers, 33 W. 39th Street, New York City 1919

HENSHAW, CHARLES N., Mechanical Engineer, 20 Wells St., Plattsburgh, N. Y. 1930

HERINGTON, GEORGE B., Lecturer, Oregon Agricultural College, Corvallis; 622 Kearny Street, Portland, Ore. 1928

HERR, E. M., President, Westinghouse E. & M. Co., 150 Broadway, New York City 1924

HERRICK, CARL A., Associate Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn..... 1922

HERRICK, RAYMOND M., Professor of English, Union College, Schenectady, N. Y. 1932

HERSAM, ERNEST A., Professor of Metallurgy, University of California, Berkeley, Calif. 1932

HERSHEY, ARTHUR W., 495 West 7th Ave., Columbus, Ohio 1927

HERTZLER, ELMER A., Instructor in Mathematics, Pratt Institute, Brooklyn, N. Y. 1929

HESSE, HERMAN C., Associate Professor of Applied Mathematics, University of Virginia, University, Va. 1929

HESSLER, VICTOR P., Instructor in Electrical Engineering, Iowa State College, Ames, Iowa. 1928

HEWITT, CHARLES E. 1915

HIBSHMAN, NELSON S., Assistant Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1930

HICKERSON, T. F., Professor of Civil Engineering, University of North Carolina, Chapel Hill, N. C. 1914

HIGBEE, F. G., Professor and Head of the Department of Descriptive Geometry and Drawing, State University of Iowa, Iowa City, Ia. (*Vice President, 1922–3; Member of Council, 1916–9.*) 1906

HIGBIE, H. H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. (*Member of Council, 1929–32.*) 1908

HILL, ARTHUR M., Instructor in Mechanical Engineering, Tulane University, New Orleans, La. 1931

HILL, A. S., Professor of Electrical Engineering, University of Maine, Orono, Me. 1919

HILL, J. E., Professor of Civil Engineering, Brown University, Providence, R. I. 1894

HILLEBRAND, W. A., Professor of Electrical Engineering, University of California, Berkeley, Calif. 1932

HINCKLEY, ALFRED D., Instructor in Electrical Engineering, Columbia University, New York City 1929

HINRICHS, FREDERIC W., JR., Professor of Mechanics, Dean of Upper Classmen, California Institute of Technology, Pasadena, Calif. 1925

HIROTA, SEIITI, 22 Denyen-Chofu, Ebara-Gori, near Tokyo, Japan 1927

HITCHCOCK, E. A., Dean of Engineering College, Director, Engineering Experiment Station, The Ohio State University, Columbus, O. (*Vice President, 1929–30; Member of Council, 1922–5.*) 1921

HITCHCOCK, L. B., University of Virginia, University, Va. 1928

HITCHCOCK, LEON W., Professor of Electrical Engineering, University of New Hampshire, Durham, N. H. 1922

HIXON, CHARLES R., Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1910

HOAD, W. C., Professor of Sanitary and Municipal Engineering, University of Michigan, Ann Arbor, Mich. (*Member of Council, 1925–8.*) 1907

HOADLEY, ANTHONY, Assistant Professor of Civil Engineering, Union College, Schenectady, N. Y. 1928

HOBBS, ALLAN W., Associate Professor of Applied Mathematics, University of North Carolina, Chapel Hill, N. C. 1910

HOBE, JOHN W., Instructor in Works Management, Carnegie Institute of Technology, Pittsburgh, Pa. 1931

HOCKEMA, FRANK C., Professor of Industrial Engineering, Purdue University, Lafayette, Ind. 1921

HODGE, CHARLES A., Head Instructor in Electrical Engineering, Yonkers Technical High School, Yonkers, N. Y. 1932

HODGE, PERCY, Professor of Physics, Stevens Institute of Technology, Hoboken, N. J. 1928

HODGE, WILLARD W., Professor and Head, Dept. of Chemical Engineering, Assistant Director, Engineering Experiment Station, West Virginia University, Morgantown, W. Va. 1930

HOEFER, E. G., Professor and Head, Dept. of Mechanical Engineering, University of North Carolina, Chapel Hill, N. C. 1910

HOELSCHER, RANDOLPH P., Professor of General Engineering Drawing, University of Illinois, Urbana, Ill. 1912

HOFFMAN, J. D., Professor and Head, Dept. of Practical Mechanics and Director of Laboratories, Purdue University, Lafayette, Ind. 1907

HOFMANN, G. A., Professor of Mechanical Engineering, University of Dayton, Dayton, O. 1916

HOGAN, MERVIN B., Assistant Professor of Mechanical Engineering, University of Utah, Box 28, Salt Lake City, Utah 1931

HOGLUND, GUSTAV O., Aluminum Company of America, New Kensington, Pa. 1928

HOLBROOK, E. A., Dean, Schools of Engineering and Mines, University of Pittsburgh, Pittsburgh, Pa. 1927

HOLCOMB, GLENN W., Assistant Professor of Civil Engineering, Oregon Agricultural College, Corvallis, Ore. 1927

HOLDEN, CHARLES A., Professor of Civil Engineering, Dartmouth College, Hanover, N. H. 1901

HOLLAND, A. DINSMORE, Assistant Professor of Experimental Engineering, Georgia School of Technology, Atlanta, Ga. 1933

HOLLAND, UBERT C., Assistant Professor of Mechanical Engineering, Rutgers University, New Brunswick, N. J. 1930

HOLLISTER, S. C., Professor of Structural Engineering, Assistant Director, Testing Materials Laboratory, Purdue University, Lafayette, Ind. 1916

HOLMBERG, CARL H., Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1924

HOLMES, CLAYTON W., Instructor in Mechanical Engineering, Haverford College, Haverford, Pa. 1933

HOLMES, FRED E., Assistant Professor of Mechanics and Hydraulics, Manager, Housing Service, The State University of Iowa, Iowa City, Ia. 1919

HOLMES, WILLIAM M. 1931

HOLT, A. H., Associate Professor of Civil Engineering, State University of Iowa, Iowa City, Iowa 1923

HOLT, CLIFFORD B., JR., Instructor in Electrical Engineering, Pennsylvania State College, State College, Pa. 1933

HOMERBERG, V. O., Associate Professor of Physical Metallurgy, Massachusetts Institute of Technology, Cambridge, Mass..... 1932

HOOD, GEO. J., Professor of Engineering Drawing, University of Kansas, Lawrence, Kans. 1914

HOOD, O. P., Chief, Technologic Branch, U. S. Bureau of Mines, 1831 Irving St., N. W., Washington, D. C. (*Member of Council, 1912–8.*) 1893

HOOPER, ELMER G., Professor of Hydraulics, New York University, New York, N. Y. 1909

HOOVER, P. L., Associate Professor of Electrical Engineering, Assistant Director, Engineering Experiment Station, Rutgers University, New Brunswick, N. J. 1931

HOOVER, THEODORE J., Dean, Engineering School, Stanford University, Stanford University, Calif. (*Member of Council, 1930–33.*) 1919

HOPE, HENRY B., Instructor in Chemical Engineering, Cooper Union, New York City 1933

HORACK, CARL W., Associate in Mechanical Engineering, University of California, Berkeley, Calif. 1933

HORINE, JOHN S., Associate Professor of Drawing, University of Kentucky, Lexington, Ky. 1929

HORNER, HARLAN H., Assistant Commissioner of Higher Education, New York State Education Dept., Albany, N. Y. 1933

HORTON, PAUL M., Professor of Chemical Engineering, Louisiana State University, Baton Rouge, La 1931

HOSFORD, H. M., Professor of Mathematics, University of Arkansas, Fayetteville, Ark. 1930

HOSKINS, L. M., Emeritus Professor of Applied Mathematics, 1240 Waverly St., Palo Alto, Calif. (*Member of Council, 1917–20.*) 1893

HOSMER, GEO. L., Professor of Geodesy, Massachusetts Institute of Technology, Cambridge, Mass. 1914

HOSTED, EDWARD G., Instructor in Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1929

HOSTETTER, H. C., Instructor in Mechanical Engineering, Pratt Institute, Brooklyn, N. Y. 1926

HOTCHKISS, CHARLES H. B., Editor, *Heating and Ventilating*, 148 Lafayette St., New York City 1925

HOTCHKISS, WILLARD E., President, Armour Institute of Technology, Chicago, Ill. 1933

HOTCHKISS, W. O., President, Michigan College of Mining and Technology, Houghton, Mich. 1926

HOUCHENS, JOHN M., Coordinator, University of Louisville, Louisville, Ky. 1930

HOUGEN, OLAF A., Associate Professor of Chemical Engineering, University of Wisconsin, Madison, Wis. 1930

HOUSE, E. B., Professor of Civil and Irrigation Engineering, Colorado State Agricultural College, Ft. Collins, Colo..... 1913

HOUSTON, HALE, Associate Professor of Civil Engineering, Washington and Lee University, Box 422, Lexington, Va..... 1914

HOWARD, ALAN, In charge, Educational Work, Advanced Courses in Engineering, General Electric Company, Schenectady, N. Y. 1931

HOWARD, DARNLEY, Assistant Professor of Mechanical Engineering, Howard University, Washington, D. C. 1928

HOWARD, JOHN W., Associate Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1907

HOWE, C. S., President Emeritus, Case School of Applied Science, North Amherst, Mass. (*President, 1907–8; Vice President, 1906–7; Member of Council since 1903.*) 1902

HOWE, EVERETT D., Assistant Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1931

HOWE, JEROME W., Professor of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1925

HOWE, LEON B., Professor of Drawing, College of Applied Science, Syracuse University, Syracuse, N. Y. 1917

HOWELL, ALMONTE C., Associate Professor of English, Assistant Dean of the Graduate School, University of North Carolina, Chapel Hill, N. C. 1922

HOWELL, ERIC V., Assistant Professor of Civil Engineering, Cornell University, Ithaca, N. Y. 1927

HOWELL, ROGER S., Professor of Experimental Engineering, Director of Evening School, Georgia School of Technology, Atlanta, Ga. 1919

HOWER, H. S., Professor and Head, Department of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1914

HOWITT, NATHAN, Physicist 1925

HOWLAND, WARREN E., Instructor in Civil Engineering, Purdue University, Lafayette, Ind. 1926

HOY, ELVIN A., Instructor in Mathematics and Engineering Drawing, University of Hawaii, Honolulu, T. H. 1930

HOYT, LAWRENCE B., East Holden, Maine 1931

HUACUJA, FEDERICO, Professor of Drawing, Escuela de Ingenieros Mecánicos Electricistas, Netzahualcoyotl, 75, Mexico City, Mexico 1926

HUGHES, GEORGE G., Professor of Mechanical Engineering, Southwestern Louisiana Institute, Lafayette, La. 1924

HUGHES, MARTIN C., Professor and Head, Dept. of Electrical Engineering, A. & M. College of Texas, College Station, Texas. 1932

HUGHES, THOMAS P., Instructor in Forging and Heat Treatment, University of Minnesota, Minneapolis, Minn. 1927

HULL, ROBERT H., Assistant Professor of Electrical Engineering, University of Idaho, Moscow, Ida. 1929

HUME, ALFRED, Chancellor, University of Mississippi, University, Miss. 1894

HUMMEL, JOSEPH O. P., Instructor in Industrial Engineering, Pennsylvania State College, State College, Pa. 1933

HUMPHREY, CARL T., Dean, School of Technology, Professor of Civil Engineering, Villanova College, Villanova, Pa. 1921

HUMPHREY, HERBERT K., Winnetka Trust & Savings Bank, Winnetka, Ill. 1918

HUMPHRIES, POWELL H., Assistant Professor of Electrical Engineering, Tulane University, New Orleans, La. 1930

HUNT, DEWITT, Professor and Head, Department of Industrial Engineering, Oklahoma A. & M. College, Stillwater, Okla..... 1931

HUNT, GUY H., Assistant Professor of Applied Mathematics, University of California at Los Angeles, Calif. 1923

HUNT, LOUIS W., Professor of Chemical Engineering, Fenn College, Cleveland, Ohio 1930

HUNT, ORVILLE D., Assistant Professor of Electrical Engineering, Kansas State College, Manhattan, Kans. 1927

HUNT, STANLEY P., Assistant Professor of Drawing and Design, University of Wyoming, Laramie, Wyo. 1932

HUNTER, J. A., Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. (*Member of Council, 1925–8.*)..... 1904

HUNTER, JAMES W., Instructor in Mechanical Technology, Pratt Institute, Brooklyn, N. Y. 1929

HUNTINGTON, E. V., Professor of Mechanics, Harvard University, Cambridge, Mass. (*Member of Council, 1914–7.*) 1906

HUNTINGTON, W. C., Professor and Head, Dept. of Civil Engineering, University of Illinois, Urbana, Ill. (*Member of Council, 1929–32.*) 1914

HUSTEDT, HERMAN F., Instructor in Mechanic Arts, Chief Engineer and Supt. of Buildings and Grounds, Tulane University, New Orleans, La. 1922

HUTCHINSON, CHARLES A., Professor and Head, Dept. of Engineering Mathematics, University of Colorado, Boulder, Colo..... 1923

HYDE, A. L., Professor of Bridge Engineering, University of Missouri, Columbia, Mo. 1904

IHRIG, ROSCOE M., Director, Division of General Studies and Evening Courses, Dean of Freshmen, Carnegie Institute of Technology, Pittsburgh, Pa. 1925

INGALLS, JAMES W., Professor of Industrial Engineering, Northeastern University, Boston, Mass. 1923

IRLAND, GEORGE A., Assistant Professor of Electrical Engineering, Bucknell University, Lewisburg, Pa. 1927

ISENBERG, DAVID A., Head, Department of Physical Elements of Engineering, Pratt Institute, Brooklyn, N. Y. 1928

IVES, HOWARD C., P. O. Box 288, Temple City, Calif. 1933

JABLOW, CHARLES, Railway Mechanical Engineer, Westinghouse E. & M. Co., 137 Avenue A, Forest Hills, Pa. 1910

JACKSON, DANIEL D., Executive Officer and Professor of Chemical Engineering, Columbia University, New York City..... 1924

JACKSON, DUGALD C., Professor of Electric Power Production and Distribution, Head, Dept. of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. (*President, 1906–7; Member of Council since 1906; Member, Board of Investigation and Coördination, 1922–.*) **Fourth Recipient Lamme Medal (1931).** 1893

JACKSON, DUGALD C., JR., Professor and Head, Department of Electrical Engineering, University of Kansas, Lawrence, Kansas 1922

JACKSON, JOHN PRICE, Manager, Personnel Bureau, The New York Edison Co., 4 Irving Place, New York City. (*Vice President, 1905–6; Member of Council, 1894–7.*) 1893

JACOBUS, D. S., Advisory Engineer, The Babcock & Wilcox Co., 85 Liberty St., New York, N. Y. 1893

JACOBY, HENRY S., Professor of Bridge Engineering, Emeritus, Cornell University, 3000 Tilden St., N.W., Washington, D. C. (*President, 1915–6; Vice President, 1913–4; Secretary, 1900–2; Member of Council, 1900–5; 1915–.*) 1894

JAMES, J. H., Professor of Chemistry, Carnegie Institute of Technology, Pittsburgh, Pa. 1910

JAMES, WALTER H., Associate Professor of Mechanical Engineering Drawing, Massachusetts Institute of Technology, Cambridge, Mass. 1926

JAMIESON, ROBERT E., Associate Professor of Civil Engineering, McGill University, Montreal, Canada 1929

JAMISON, WALTER W., Head, Mass. School of Art, Instructor of English, Cambridge, Mass. 1930

JANDA, H. F., Professor of Highway Engineering and City Planning, University of Wisconsin, Madison, Wis. 1924

JANSKY, CYRIL M., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1924

JANSSEN, ALLEN S., Instructor in Civil Engineering, University of Idaho, Moscow, Idaho 1931

JENKINS, DAVID R., Professor of Electrical Engineering, University of North Dakota, University Station, Grand Forks, N. D. 1912

JENKINS, HOWARD M., Assistant Professor of Electrical Engineering, Swarthmore College, Swarthmore, Pa. 1931

JENNESS, LYLE C., Assistant Professor of Chemical Engineering, University of Maine, Orono, Me. 1926

JENNINGS, BURGESS H., Assistant Professor of Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1933

JENSEN, ALFRED, Instructor in General Engineering, University of Washington, Seattle, Wash. 1932

JENSEN, GORDON L., Instructor in Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1929

JETT, CARTER C., Professor of Machine Design, University of Kentucky, Lexington, Ky. 1925

JETT, DANIEL B., Associate Professor of Civil Engineering, New Mexico A. & M. College, State College, N. M. 1928

JEWETT, ARTHUR C., Director, College of Industries, Carnegie Institute of Technology, Pittsburgh, Pa. 1925

JEWETT, F. B., Vice President, American T. & T. Co., President, Bell Telephone Laboratories, Inc., 195 Broadway, New York, N. Y. 1914

JOERGER, C. ALBERT, Professor of Mechanical Engineering, University of Cincinnati, Cincinnati, Ohio 1929

JOHN, WALTON C., Senior Specialist in Higher Education, U. S. Office of Education, Department of Interior, Washington, D. C. 1923

JOHNDROE, S. G., Educational Director, Massachusetts Reformatory, West Acton, Mass. 1921

JOHNSON, A. R., Professor of Structural Design, Rutgers University, New Brunswick, N. J. 1909

JOHNSON, CHARLES A., Director, Vocational Education, Public Schools, Great Southern Life Building, Houston, Texas 1927

JOHNSON, ELMER W., Assistant Professor of Electrical Power Engineering, University of Minnesota, Minneapolis, Minn. 1926

JOHNSON, F. ELLIS, Professor and Head, Department of Electrical Engineering, Iowa State College, Ames, Iowa. (*Member of Council, 1932–35.*) 1916

JOHNSON, FREDERICK M. G., Dean of Science, McGill University, Montreal, Canada 1928

JOHNSON, J. HUGO, Professor and Head, Department of Electrical Engineering, Acting Dean, University of Idaho, Moscow, Ida. 1926

JOHNSON, LEWIS J., Professor of Civil Engineering, Harvard University, Cambridge, Mass. (*Member of Council, 1902–5; 1908–11.*) 1898

JOHNSON, RUBEN G., Associate Professor of Civil Engineering, University of South Carolina, Columbia, S. C. 1933

JOHNSON, THEODORE S., Professor of Industry, North Carolina State College, Raleigh, N. C. 1933

JOHNSON, WILLIAM D., Assistant Radio Inspector, Department of Commerce, U. S., P. O. Box 2833, Dallas, Texas 1927

JOHNSTON, CLAIR C., Director, Dept. of Civil Engineering, University of Detroit, Detroit, Mich. 1929

JOHNSTON, W. A., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass.... 1907

JONES, CHARLES B., Instructor in Forging and Heat Treating, Pratt Institute, Brooklyn, N. Y. 1928

JONES, C. R., Dean Emeritus and Professor of Power Engineering, West Virginia University, Morgantown, W. Va. (*Vice President, 1904–5.*) 1895

JONES, E. C., Assistant Professor of Shop Practice, Kansas State College, Manhattan, Kans. 1917

JONES, F. E., Assistant Professor of Mechanic Arts, University of Kansas, Lawrence, Kans. 1915

JONES, JAMES B., Associate Professor of Applied Mechanics and Experimental Engineering, Virginia Polytechnic Institute, Blacksburg, Va. 1927

JONES, J. O., Professor of Hydraulics, University of Kansas, Lawrence, Kansas 1916

JONES, LAWRENCE D., Secretary, College of Engineering, Assistant Professor of Engineering Drawing, Ohio State University, Columbus, Ohio 1930

JONES, WALTER B., Professor of Education, University of Pittsburgh, Pittsburgh, Pa. 1930

JONES, WALTER P., Associate Professor of English, Iowa State College, Ames, Iowa 1930

JONES, WEBSTER N., Director, College of Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1933

JORDAN, HARVEY H., Professor and Head, General Engineering Drawing, and Assistant Dean, College of Engineering, University of Illinois, Urbana, Ill. (*Vice President, 1931–32; Member of Council, 1924–7.*) 1915

JORDAN, HENRY G., Professor of Electrical Engineering, Colorado Agricultural College, Fort Collins, Colo. 1926

JORDAN, HERBERT E., Associate Professor of Mathematics, University of Kansas, Lawrence, Kans. 1924

JORGENSEN, ALBERT, Associate in Drawing and Descriptive Geometry, University of Illinois, Urbana, Ill. 1926

JORGENSON, L. M., Assistant Professor of Electrical Engineering, Kansas State College, Manhattan, Kans. 1926

JUDD, HORACE, Professor of Hydraulic Engineering, The Ohio State University, Columbus, O. 1907

JURDAK, MANSUR, Professor of Mathematics, Director of Engineering Classes, American University of Beirut, Beirut, Syria 1929

JUSTIN, EDWARD M., Assistant Professor of Mathematics, Case School of Applied Science, Cleveland, Ohio 1928

KAHN, LOUIS, Instructor in Electrical Engineering, Rutgers University, New Brunswick, N. J. 1929

KAMMERMAN, J. O., Professor and Head, Dept. of Electrical Engineering, South Dakota State School of Mines, Rapid City, S. D. 1924

KAPP, CECIL A., Director, Cooperative Education, Drexel Institute, Philadelphia, Pa. 1929

KARELITZ, GEORGE B., Professor of Mechanical Engineering, Columbia University, New York, N. Y. 1930

KARSTEN, ANDREW, Professor of Chemical Engineering, South Dakota School of Mines, Rapid City, S. D. 1931

KARTAK, FRANZ A., Dean of Engineering, Marquette University, Milwaukee, Wis. 1922

KAVANAUGH, DENNIS, JR., Associate Professor of Mechanical Engineering, Post Graduate School, U. S. Naval Academy, Annapolis, Md. 1925

KAVANAUGH, W. H., Professor of Experimental Engineering, University of Pennsylvania, Philadelphia, Pa. (*Member of Council, 1919–22.*) 1902

KEATOR, FREDERIC W., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1929

KEELER, HUGH E., Associate Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1926

KEEVIL, CHARLES S., Professor and Head, Dept. of Chemical Engineering, Oregon State College, Corvallis, Ore. 1932

KEGERREIS, ROY, Physician, 311 No. Oak Park Ave., Oak Park, Ill. (Life Member.) 1913

KEIM, PAUL F., Consulting Engineer, 1618 Washington St., Lincoln, Nebr. 1930

KELLER, ARTHUR R., Dean, College of Applied Science, University of Hawaii, 2456 Oahn Avenue, Honolulu, T. H. 1910

KELLER, GEORGE J., Assistant Professor of Steam Engineering, The State University of Iowa, Iowa City, Ia. 1919

KELLER, JOHN F., Steel Specialist, Purdue University, Lafayette, Ind. 1925

KELLER, J. O., Professor of Engineering Extension, The Pennsylvania State College, and Head, Dept., State College, Pa. 1916

KELTON, FRANK C., Professor of Civil Engineering, University of Arizona, Tucson, Ariz. 1925

KEMLER, EMORY, Instructor in Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1929

KENERSON, W. H., Professor of Mechanical Engineering, Chairman Division of Engineering, Brown University, Providence, R. I. (*Member of Council, 1924–7.*) 1903

KENNARD, HAROLD J., Associate Professor of Graphics, Lafayette College, Easton, Pa. 1930

KENNEDY, F. L., Associate Professor of Engineering Drawing (Emeritus), Harvard University, Cambridge, Mass. 1904

KENNELLY, A. E., Professor of Electrical Engineering, Emeritus, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1916

KENRICK, GLEASON W., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1927

KENT, CLARENCE H., Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1926

KENT, HARRY L., JR., Instructor in Mechanical Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1931

KENT, J. M., Teacher of Steam and Electricity and Radio Engineering, Manual Training High School, Kansas City, Mo..... 1903

KEPNER, HAROLD R., Assistant Professor of Civil Engineering, Utah State Agricultural College, Logan, Utah 1930

KERCHNER, RUSSELL M., Associate Professor of Electrical Engineering, Kansas State College, Manhattan, Kans. 1923

KEREKES, FRANK, Professor of Structural Engineering, Iowa State College, Ames, Iowa 1927

KERN, EDWARD F., Professor of Nonferrous-metallurgy, Columbia University, New York City 1925

KERSTEN, HAROLD J., Assistant Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio 1927

KESNER, HENRY J., Professor of Civil Engineering, University of Nebraska, Lincoln, Nebr. 1921

KETCHUM, MILO S., Research Professor of Civil Engineering, University of Illinois, Urbana, Ill. (*President, 1917–8; Vice President, 1910–11; Secretary, 1904–6; Member of Council, 1904–9; 1916–.*) 1903

KETCHUM, R. B., Dean, School of Mines and Engineering, University of Utah, Salt Lake City, Utah 1928

KEYES, DONALD B., Professor of Chemical Engineering, University of Illinois, Urbana, Ill. 1928

KIEFER, EARL C., Professor of Mathematics, James Millikin University, Decatur, Ill. 1921

KIEFER, PAUL J., Professor of Mechanical Engineering, Post Graduate School, U. S. Naval Academy, Annapolis, Md. 1917

KIERNAN, CHARLES J., Assistant to Supervisor, Industrial Relations, Newark College of Engineering, Newark, N. J. 1931

KILE, ROBERT F. 1932

KILPATRICK, A. VERN, Associate Professor of Mechanical Engineering, Missouri School of Mines, Rolla, Mo. 1929

KIMBALL, ALLEN H., Professor and Head, Department of Architectural Engineering, Iowa State College, Ames, Iowa..... 1931

KIMBALL, D. S., Professor of Industrial Engineering, and Dean, College of Engineering, Cornell University, Ithaca, N. Y. (*President, 1928–29; Vice President, 1922–23; Member, Board of Investigation and Coordination, 1924–; Member of Council, 1928–.*) **Sixth Recipient Lamme Medal (1933)** 1915

KIMBALL, WM. P., Instructor in Civil Engineering, Thayer School of Civil Engineering, Hanover, N. H. 1933

KING, EVERITT E., Professor of Railway Civil Engineering, University of Illinois, Urbana, Ill. 1908

KING, GEORGE C., Professor of Mechanical Engineering Design, Purdue University, Lafayette, Ind. 1926

KING, H. W., Professor of Hydraulic Engineering, University of Michigan, Ann Arbor, Mich. 1913

KING, MORLAND, Professor and Head, Dept. of Electrical Engineering, Lafayette College, Easton, Pa. (*Member of Council, 1932–35.*) 1920

KING, ROY S., Head, Department of Mechanical Engineering, Georgia School of Technology, Atlanta, Ga. (*Vice President, 1924–5; Member of Council, 1920–5.*) 1904

KINGMAN, EDWARD D., Head, Department of Applied Mechanics, Wentworth Institute, Boston, Mass. 1923

KINNEY, EDWARD E., Assistant Professor of Electrical Engineering, Michigan State College, East Lansing, Mich. 1925

KINSLOE, CHARLES L., Head, Department of Electrical Engineering, The Pennsylvania State College, State College, Pa..... 1926

KIRBY, RICHARD S., Associate Professor of Engineering Drawing, Yale University, New Haven, Conn. 1911

KIRCHNER, W. H., Professor and Head, Dept. of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1910

KISTLER, PAUL N., Assistant Professor of Mechanical Engineering, Brown University, Providence, R. I. 1931

KITTREDGE, RAYMOND B., Professor of Transportation Engineering, State University of Iowa, Iowa City, Ia. 1921

KLEIN, A. W., Professor of Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1908

KLEMIN, ALEXANDER, Professor of Aeronautical Engineering, New York University, New York City 1926

KLOEFFLER, ROYCE G., Professor and Head, Department of Electrical Engineering, Kansas State College, Manhattan, Kans.... 1919

KLUGH, WILLISTON W., Associate Professor of Drawing, Clemson Agricultural College, Clemson College, S. Car. 1929

KNAPP, WILLARD A., Professor of Engineering Extension Service, Purdue University, Lafayette, Ind. 1920

KNIGHT, ABNER R., Associate Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1929

KNIGHT, ARTHUR J., Professor of Civil Engineering, Supt., Buildings and Grounds, Worcester Polytechnic Institute, Worcester, Mass. 1926

KNIGHT, CARL D., Professor of Experimental Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1907

KNIGHT, W. A., Professor of Mechanical Practice, Emeritus, The Ohio State University, Columbus, O. 1907

KNIPMEYER, CLARENCE C., Professor of Electrical Engineering, Rose Polytechnic Institute, Terre Haute, Ind. 1929

KNIPP, CHARLES T., Professor of Experimental Electricity, University of Illinois, Urbana, Ill. 1921

KNOWLES, MAHLON G., Instructor in Applied Science, Wentworth Institute, Boston, Mass. 1922
KNOWLES, RICHARD C., Instructor in Aeronautics, Pratt Institute, Brooklyn, N. Y. 1931
KOCH, RUTH L., Instructor in Coordination and Correlation, Speed Scientific School, University of Louisville, Louisville, Ky..... 1927
KOENIG, LLOYD R., Assistant Professor of Mechanical Engineering, Washington University, St. Louis, Mo. 1931
KOENITZER, LESTER H., Instructor in Applied Mechanics, Kansas State College, Manhattan, Kans. 1929
KOEPKE, CHARLES A., Associate Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1929
KOERBER, G. A., Professor of Electrical Engineering, Delaware College, Newark, Del. 1915
KOFFOLT, JOSEPH H., Assistant Professor of Chemical Engineering, The Ohio State University, Columbus, Ohio 1933
KOHLER, ARTHUR S., Instructor in Chemistry, Newark College of Engineering, Newark, N. J. 1932
KOLB, ROBERT P., Assistant Professor of Mechanical Engineering, North Carolina State College, Raleigh, N. C. 1925
KOLBE, PARKE R., President, Drexel Institute, Philadelphia, Pa. 1926
KOMMERS, JESSE B., Professor of Mechanics, University of Wisconsin, Madison, Wis. 1923
KOPP, CHARLES F., Tuxedo Terrace, Cincinnati, Ohio 1930
KOVARIK, ALOIS F., Professor of Physics, Sheffield Scientific School, Yale University, New Haven, Conn 1919
KOWALKE, OTTO L., Professor of Chemical Engineering, University of Wisconsin, Madison, Wis. 1918
KRATHWOHL, WM. C., Professor and Head, Department of Mathematics, Armour Institute of Technology, Chicago, Ill. 1927
KREFELD, WILLIAM J., Assistant Professor of Civil Engineering, Columbia University, New York City 1929
KROTZER, F. W., 442 Greenwich Avenue, Milwaukee, Wis. 1929
KUHLMAN, JOHN H., Associate Professor of Electrical Design, University of Minnesota, Minneapolis, Minn. 1925
KUNKLE, GEORGE M., Instructor in Mechanical Engineering, Bucknell University, Lewisburg, Pa. 1925
KURTZ, E. B., Professor and Head, Department of Electrical Engineering, University of Iowa, Iowa City, Iowa 1921
LABREE, FRANK H., Instructor in Electrical Engineering and Physics, Northeastern University, Boston, Mass. 1933
LAFRENIÈRE, THEO. J., Professor of Sanitary Engineering, École Polytechnique, 59 Notre Dame, East Montreal, Canada 1923
LAMBE, EMERSON P., Instructor in Physical Elements of Engineering, Pratt Institute, Brooklyn, N. Y. 1926
LAMBERT, B. J., Head, Dept. of Civil Engineering, State University of Iowa, Iowa City, Ia. 1907

LAMBERT, LEROY S., Assistant to the President, Northwestern Bell Telephone Company, 1204 Telephone Building, Omaha, Neb. 1929

LAMBERTINE, JOSEPH A., Instructor in Mechanical Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1928

LAMBIE, JOS. S., Operating Manager, Concrete Products Company of America, Diamond Bank Building, Pittsburgh, Pa..... 1914

LANDREAU, GEORGES L., Professor of Engineering Drawing, Ecole Polytechnique, Montreal, Canada 1930

LANGE, PAULUS, Associate Professor of English, Iowa State College, Ames, Iowa 1922

LANGILLE, H. B., Associate Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1915

LANGSDORF, ALEXANDER S., Dean, Schools of Engineering and Architecture, Professor of Applied Mathematics, Washington University, St. Louis, Mo. (*Member of Council, 1913–16.*) .. 1903

LANIER, A. C., Professor and Chairman, Department of Electrical Engineering, University of Missouri, Columbia, Mo. (*Member of Council, 1927–30.*) 1915

LANING, WILLARD A., 601 So. Busey Street, Urbana, Ill. 1930

LANSIL, CLIFFORD E., Associate Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass..... 1925

LAPHAM, JOHN R., Dean, Professor of Civil Engineering, George Washington University, Washington, D. C. 1912

LARKIN, F. V., Director of Mechanical and Industrial Engineering, Lehigh University, Bethlehem, Pa. (*Member of Council, 1930–33; Vice President, 1933–34.*) 1912

LARKINS, JAMES T., Assistant Professor of Engineering, Director of Architecture, Pennsylvania State College, State College, Pa. 1930

LARSON, C. WILLIAM, Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1929

LARSON, G. L., Professor of Steam and Gas Engineering, University of Wisconsin, Madison, Wis. 1911

LATON, T. J., Assistant Professor of Mechanical Engineering, University of New Hampshire, Durham, N. H. 1923

LAURSON, PHILIP G., Associate Professor of Engineering Mechanics, Yale University, New Haven, Conn. 1920

LAWALL, CHARLES E., Director, School of Mines and Extension of Industrial Sciences, West Virginia University, Morgantown, W. Va. 1931

LAWRENCE, RUSSELL E., Dean of Engineering, Lawrence Institute of Technology, Highland Park, Mich. 1926

LAWRENCE, R. R., Professor of Electrical Machinery, Massachusetts Institute of Technology, Cambridge, Mass. 1907

LEAVITT, ERNEST E., Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1933

LEAVITT, H. WALTER, Associate Professor of Civil Engineering, University of Maine, Orono, Me. 1922

LeConte, J. N., Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1913

Lee, Edwin A., Professor of Education, Director, Division of Vocational Education, University of California, Berkeley, Calif. 1933

Lee, Frank H., Instructor in Engineering Drafting, Columbia University, New York City 1927

Lee, Myron A., Professor of Industrial Engineering, Cornell University, Ithaca, N. Y. 1929

Leet, Horace W., Professor of Machine Design and Mechanical Drawing, University of Rochester, Rochester, N. Y. 1930

Lefavour, Roland W., Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1921

Lefebvre, Olivier O., Chief Engineer, Quebec Streams Commission, New Court House, Montreal, Canada 1919

Lehmann, Charles H., Instructor in Mathematics, Cooper Union, New York, N. Y. 1931

Lehoczky, Paul N., Instructor in Industrial Engineering, Ohio State University, Columbus, Ohio 1930

Leigh, Charles W., Professor of Analytic Mechanics, Armour Institute of Technology, Chicago, Ill 1928

Leighton, Arthur W., Assistant Professor of Graphics, Tufts College, Tufts College, Mass. 1922

Leland, O. M., Dean, College of Engineering and Architecture, and the School of Chemistry, University of Minnesota, Minneapolis, Minn. (*President, 1926–7; Member of Council, 1921–4; 1926–.*) 1908

Lendall, Harry N., Professor of Municipal and Sanitary Engineering, Head, Dept. of Civil Engineering, Rutgers University, New Brunswick, N. J. 1912

Leonard, Carroll M., Assistant Professor of Mechanical Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1930

Leonard, Heman Burr, Professor and Head, Dept. of Mathematics, University of Arizona, Tucson, Ariz. 1919

Leonard, Samuel J., Associate Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1925

LePage, Clifford B., Assistant Secretary, The American Society of Mechanical Engineers, 29 West 39th St., New York City. 1908

Lester, O. C., Professor of Physics, Vice President and Dean of Graduate School, University of Colorado, Boulder, Colo. 1912

Leutwiler, O. A., Professor of Mechanical Engineering Design, University of Illinois, Urbana, Ill. (*Member of Council, 1918–21.*) 1906

Levens, Alex S., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1932

Lewis, Fred J., Dean, School of Engineering, Professor of Civil Engineering, Vanderbilt University, Nashville, Tenn. 1926

LEWIS, J. F., Purchasing Agent, Pringle Electric & Mfg. Co., 505 Brinton St., Germantown, Philadelphia, Pa. (Life Member.) 1913

LEWIS, RALPH E., Instructor in Mechanical Engineering, Texas Technological College, Lubbock, Texas..... 1931

LEWIS, ROBERT S., Professor of Mining, University of Utah, Salt Lake City, Utah..... 1922

LEWIS, WARREN K., Professor of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1932

LEWISOHN, SAM A., Vice President and Treasurer, Miami Copper Company, 61 Broadway, New York City 1929

LICHTY, LESTER C., Associate Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1930

LIGHT, J. J., Assistant Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. 1917

LILLY, SCOTT B., Professor of Civil Engineering, Swarthmore College, Swarthmore, Pa. 1913

LINCOLN, P. M., Director, School of Electrical Engineering, Cornell University, Ithaca, N. Y. 1911

LINDELL, W. FRANCIS, Instructor in Mechanical Engineering, University of Delaware, Newark, Del. 1922

LINDLEY, ROY W., Associate Professor of Practical Mechanics, Purdue University, Lafayette, Ind. 1922

LINDSAY, FRANK B., Box 224, Colton, Calif. 1928

LITTLE, ARLINGTON P., Professor of Electrical Engineering, Colorado School of Mines, Golden, Colo. 1918

LIVINGSTON, ROBERT T., Assistant Professor of Mechanical Engineering, Columbia University, New York City 1932

LLOYD, HAROLD RHYS, Assistant Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich 1926

LLOYD, TOM C., Associate Professor of Electrical Engineering, Antioch College, Yellow Springs, Ohio 1929

LOCKARD, ROBERT I., Instructor in Architecture, Kansas State College, Manhattan, Kansas 1932

LOCKE, CHARLES E., Professor of Mining Engineering and Ore Dressing, Massachusetts Institute of Technology, Cambridge, Mass. 1924

LOCKWOOD, H. J., Professor of Power Engineering, Dartmouth College, Hanover, N. H. 1929

LOGAN, CHARLES A., Assistant Professor of Agricultural Engineering, Kansas State College, Manhattan, Kansas 1930

LOHR, WM. S., Professor of Civil Engineering, Lafayette College, Easton, Pa. 1927

LOMMEL, GEORGE E., Professor of Topographical Engineering, Purdue University, Lafayette, Ind. 1926

LONG, JAMES D., Assistant Professor of Agricultural Engineering, University of California, Davis, Calif. 1932

LONG, MAURICE B., Assistant Director of Publication, Bell Telephone Laboratories, 463 West Street, New York, N. Y..... 1930
LORAH, JAMES R., Associate Professor of Chemical Engineering, University of Missouri, Columbia, Mo. 1928
LORY, CHARLES A., President, State Agricultural College of Colorado, Fort Collins, Colo. 1908
LOTT, SAMUEL H., Associate Professor of Machine Design, Stevens Institute of Technology, Hoboken, N. J. 1921
LOVELL, ALFRED H., Professor of Electric Power Engineering, Assistant Dean of Engineering, University of Michigan, Ann Arbor, Mich. 1920
LOVETT, I. H., Professor of Electrical Engineering, University of Missouri, Rolla, Mo. 1921
LOWE, THOMAS M., Assistant Professor of Civil Engineering, University of Florida, Gainesville, Fla. 1928
LOWE, WM. S., Instructor in Electrical Engineering, South Dakota State College, Brookings, S. D. 1932
LUCARINI, GENO B., Assistant Professor of Mechanical Engineering, University of Vermont, Burlington, Vt. 1929
LUCE, ALEXANDER W., Assistant Professor of Machine Design, Lehigh University, Bethlehem, Pa. 1932
LUCKE, CHARLES E., Stevens Professor of Mechanical Engineering, Columbia University, New York, N. Y. 1906
LUDDEN, DWIGHT J., Instructor in Drafting, Community High School, Granite City, Ill., 2910a Bailey Ave., St. Louis, Mo. ... 1933
LUDY, L. V., Professor of Experimental Engineering, Purdue University, Lafayette, Ind. 1902
LUEBS, AUGUST A., Associate Professor of Mechanical Engineering, University of Nebraska, Lincoln, Nebr. 1921
LUETH, IRVING B., Instructor in Mathematics, Pratt Institute, Brooklyn, N. Y. 1931
LURIE, ARNOLD N., Head, Drawing Department, Tilden Technical High School, Chicago, Ill. 1933
LUTHER, H. B., Professor of Civil Engineering, University of Cincinnati, Cincinnati, O. 1914
LYON, DANIEL R., Instructor in Industrial Arts, Long Beach High School, Long Beach, N. Y. 1930
LYON, DORSEY A., Director, Dept. Mining and Metallurgical Research, University of Utah, Salt Lake City, Utah 1923
LYTLE, CHAS. W., Director of Industrial Coördination, New York University, New York City 1922
MACCONOCHIE, ARTHUR F., Associate Professor of Mechanical Engineering, University of Virginia, University, Va. 1923
MACCULLOUGH, GLEASON H., Professor of Engineering Mechanics, Worcester Polytechnic Institute, Worcester, Mass. 1922
MACDONALD, JOHN 1925

MACDONALD, S. L., Head of the Department of Mathematics, Colorado State Agricultural College, Ft. Collins, Colo. 1914

MACK, ALBERT J., Professor of Mechanical Engineering, Kansas State College, Manhattan, Kans. 1919

MACKAVANAGH, T. J., Professor of Electrical Engineering, Catholic University of America, Washington, D. C. 1916

MACKENZIE, C. J., Dean of Engineering, University of Saskatchewan, Saskatoon, Sask., Canada 1915

MACKENZIE, NORTON W., Instructor in Mechanical Drawing and Design, Pratt Institute, Brooklyn, N. Y. 1931

MACLIN, EDWARD S., Professor of Industrial Education, New River State College, Montgomery, W. Va. 1922

MACNAUGHTON, EDGAR, Professor of Mechanical Engineering, Tufts College, Tufts College, Mass. 1916

MACNUTT, BARRY, Gloucester, Mass. 1910

MADIGAN, JOHN A., Professor and Head, Dept. of Mathematics and Engineering, College of St. Thomas, St. Paul, Minn..... 1931

MAGNUSSON, C. EDWARD, Professor of Electrical Engineering, Director, Engineering Experiment Station, University of Washington, Seattle, Wash. (*Member of Council, 1911–4; 1922–5; Vice President, 1927–8.*) 1907

MAGOUN, F. ALEXANDER, Associate Professor of Humanics, Massachusetts Institute of Technology, Cambridge, Mass. 1930

MAGRUDER, WM. T., Professor of Mechanical Engineering, The Ohio State University, Columbus, O. (*President, 1912–3; Vice President, 1905–6; Secretary, 1906–7; Member of Council, 1899–2; 1905–.*) 1893

MAIN, C. T., President, Chas. T. Main, Inc., 201 Devonshire St., Boston, Mass. 1911

MALEEV, VLADIMIR L., Professor of Mechanical Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1930

MALLORY, FRANCIS, Professor of Physics, Virginia Military Institute, Lexington, Va. 1912

MANDERFIELD, NICHOLAS, Associate Professor of Metallurgy and Ore-Dressing, Michigan College of Mining and Technology, Houghton, Mich. 1926

MANEY, GEORGE A., Professor of Structural Engineering, Northwestern University, Evanston, Ill. 1927

MANN, CHARLES A., Chief of Division and Professor of Chemical Engineering, University of Minnesota, Minneapolis, Minn.... 1917

MANN, C. R., Director, American Council on Education, 744 Jackson Place, Washington, D. C. (*Member of Council, 1918–21.*) 1914

MANN, CLAIR V., Professor of Engineering Drawing, University of Missouri, Rolla, Mo. (*Member of Council, 1925–8.*) 1924

MANN, FREDERICK M., Professor and Head, School of Architecture, University of Minnesota, Minneapolis, Minn. 1925

MANTELL, CHARLES L., Consulting Engineer, Pratt Institute, Brooklyn, N. Y. 1931
MAO, T. E., President, Pei-Yang University, Tientsin, China 1923
MARCELLUS, JONTA B., Engineer Appraiser, Federal Land Bank, Wichita, Kansas 1924
MARCH, HERMAN W., Professor of Mathematics, University of Wisconsin, Madison, Wis. 1926
MARCHANT, GUY B., Assistant Professor of Electrical Engineering, Evansville College, Evansville, Ind. 1927
MARGOLIS, JOSEPH, Instructor in Chemistry, Fenn College, Cleveland, Ohio 1930
MARIN, JOSEPH, Instructor in Civil Engineering, Rutgers University, New Brunswick, N. J. 1931
MARKER, J. R., Chief Engineer, Ohio Paving Brick Mfgrs. Association, 510 Hartman Bldg., Columbus, O. 1913
MARKLE, DAVID L., Associate Professor of Electrical Engineering, The Pennsylvania State College, State College, Pa. 1926
MARKLE, E. W., Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1923
MARKS, LIONEL S., Professor of Mechanical Engineering, Harvard University, Cambridge, Mass. (*Vice President, 1912–3.*).... 1909
MARQUIS, F. W., Professor of Mechanical Engineering, The Ohio State University, Columbus, Ohio 1910
MARSDEN, RAYMOND R., Dean and Professor of Civil Engineering, Thayer School of Civil Engineering, Dartmouth College, Hanover, N. H. 1922
MARSHALL, WM., Professor and Head, Dept. of Mathematics, Purdue University, Lafayette, Ind. 1923
MARSTON, ANSON, Dean of Engineering and Director of the Engineering Experiment Station, Iowa State College, Ames, Ia. (*President, 1914–5; Treasurer, 1906–7; Member of Council, 1914–.*) 1894
MARTENIS, JOHN V., Associate Professor of Machine Design, University of Minnesota, Minneapolis, Minn. 1908
MARTEN, BRUCE W., Instructor in Engineering, Los Angeles Junior College, Los Angeles, Calif. 1933
MARTIN, JOHN R., Assistant Professor of Electrical Engineering, Case School of Applied Science, Cleveland, Ohio 1933
MARTIN, W. H., Professor of Heat Engineering, Oregon Agricultural College, Corvallis, Ore. 1913
MARX, C. D., Professor Emeritus of Civil Engineering, Stanford University, Stanford University, Calif. (*Vice President, 1899–00; Member of Council, 1893–6.*) 1893
MASON, H. LEA, Assistant Professor of Mechanical Engineering, Columbia University, New York, N. Y. 1925

MASON, HOWARD W., Professor and Head, Department of Experimental Engineering, Georgia School of Technology, Atlanta, Ga. 1927

MATHESON, ERNEST G., Associate Professor of Civil Engineering, University of British Columbia, Vancouver, B. C. 1926

MATHEWS, RALPH T., Instructor in Mechanical Engineering, Duke University, Durham, N. Car. 1930

MATHEWSON, CHAMPION H., Professor of Metallurgy, Yale University, New Haven, Conn. 1921

MATHEWSON, EDWARD P., Professor of Administration in Mineral Industry, University of Arizona, Tucson, Ariz. 1932

MATLOCK, JOSEPH R., Assistant Professor of Civil Engineering, University of Oklahoma, Norman, Okla. 1930

MATTHEWS, JOHN J., Assistant Professor of Mechanical Engineering, Swarthmore College, Swarthmore, Pa. 1931

MAURER, EDWARD R., Professor of Mechanics, University of Wisconsin, Madison, Wis. (*Vice President, 1918–9; Member of Council, 1909–12.*) 1897

MAVIS, FREDERIC T., Associate Professor of Mechanics and Hydraulics, University of Iowa, Iowa City, Iowa 1929

MAXFIELD, HAROLD A., Assistant Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass..... 1925

MAXSON, GEORGE R., Associate Professor of Mechanical Drawing, University of Oklahoma, Norman, Okla. 1928

MAYER, ERNEST J., Professor of Industrial Education, New Mexico Normal University, Las Vegas, N. M. 1928

MAYROSE, HERMAN E., Professor of Engineering Mechanics, University of Detroit, Detroit, Mich. 1926

MCADAMS, WILLIAM H., Professor of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, Mass..... 1932

MCCABE, FRANCIS T., Master, Rindge Technical School, Cambridge, Mass. 1921

MCCAIN, DEWEY M., Professor of Civil Engineering, Mississippi State College, State College, Miss. 1933

MCCANDLISS, L. C., Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

MCCANN, WM. R., Engineer, Atmospheric Nitrogen Corporation, Hopewell, Va. 1912

MCCARTER, WILLIAM W., Instructor in Mechanical Engineering, A. & M. College of Texas, College Station, Texas 1929

MCCAUGHEY, W. J., Professor of Mineralogy, The Ohio State University, Columbus, Ohio 1923

MCCAUSTLAND, E. J., Dean, School of Engineering, and Director Engineering Experiment Station, University of Missouri, Columbia, Mo. (*Vice President, 1921–2; Member of Council, 1916–9.*) 1902

McClain, Fred H., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1921
McClelland, E. H., Technology Librarian, Carnegie Library of Pittsburgh, Pittsburgh, Pa. 1912
McClintock, Wm. McK., Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. 1922
McCormick, Robert L., Professor and Head, Civil and Architectural Engineering, Rose Polytechnic Institute, Terre Haute, Ind. 1929
McCullough, Erwin W., Professor of Mining Engineering, Case School of Applied Science, Cleveland, Ohio 1931
McCullough, F. M., Professor and Head, Dept. of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1910
McCully, Harry M., Professor and Head, Dept. of Drawing, Carnegie Institute of Technology, Pittsburgh, Pa. 1926
McDaniel, J. E., Professor and Director of Coöperative Courses, Georgia School of Technology, Atlanta, Ga. (*Member of Council, 1930–33.*) 1926
McDonald, Philip B., Associate Professor of English, New York University, University Heights, New York, N. Y. 1917
McGivern, James G., Instructor in Engineering Drawing, Lincoln Institute, 8 Clermont St., Dorchester, Mass. 1930
McIlhenny, Isbell F., Assistant Professor of Electrical Engineering, Fenn College, Cleveland, Ohio 1930
McIntosh, W. R., Associate Professor of Civil Engineering, University of Louisville, Louisville, Ky. 1927
McIntyre, Lewis W., Traffic Engineer, City of Pittsburgh (6630 Woodwell St.); Lecturer, University of Pittsburgh, Pittsburgh, Pa. 1919
McKee, Ralph H., Professor of Chemical Engineering, Columbia University, New York, N. Y. 1919
McKenry, Nell, Assistant Secretary, Society for the Promotion of Engineering Education, University of Pittsburgh, Pittsburgh, Pa. *Assistant Secretary, 1918–* 1923
McKergow, C. M., Professor of Mechanical Engineering, McGill University, Montreal, Canada. (*Member of Council, 1927–30.*) 1913
McKinnon, John C., Assistant Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1927
McLaughlin, Donald H., Professor of Mining Engineering, Harvard University, Cambridge, Mass. 1928
McLaurin, Banks, Adjunct Professor of Civil Engineering, University of Texas, Austin, Texas 1927
McMaster, Allen S., Instructor in Engineering Mathematics, University of Colorado, Boulder, Colo. 1931
McMillan, Fred O., Research Professor of Electrical Engineering, Oregon State College, Corvallis, Ore. 1932

McMurtray, H. D., Professor of Physics, North Texas Agricultural College, Arlington, Texas 1925
McNamara, Francis T., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1929
McNeely, John K., Research Professor of Electrical Engineering, Iowa State College, Ames, Iowa 1926
Mead, D. W., Professor of Hydraulic and Sanitary Engineering, University of Wisconsin, Madison, Wis. 1908
Meadowcroft, Allan J., Instructor in Engineering, Canal Zone Junior College, Balboa, Canal Zone 1933
Means, Lester H., Industrial Service Department, General Electric Co., Schenectady, N. Y. 1928
Meeker, W. H., Professor and Head, Department of Mechanical Engineering, Iowa State College, Ames, Ia. 1903
Mehrhof, Floyd E., Assistant Professor of Mechanical Engineering, Rutgers University, New Brunswick, N. J. 1923
Meikle, G. Stanley, Director, Research Relations with Industry, Purdue University, Lafayette, Ind. 1930
Melvin, Harold W., Dean of Students, Northeastern University, Boston, Mass. 1932
Merriam, Kenneth G., Assistant Professor of Aeromechanics, Worcester Polytechnic Institute, Worcester, Mass. (Life Member.) 1925
Merrick, Charles M., Assistant Professor of Mechanical Engineering, Lafayette College, Easton, Pa. 1929
Merrill, George A., Director, California School of Mechanic Arts, Lux Technical Institute, Wilmerding School of Industrial Arts, San Francisco, Calif. 1931
Merrill, Joseph F., Commissioner of Education, L.D.S. Church, 47 E. South Temple Street, Salt Lake City, Utah 1907
Merritt, Harold W., Instructor in Physics, Cooper Union, New York City 1927
Meserve, George H., Jr., Assistant Professor of Drawing, Northeastern University, Boston, Mass. 1929
Meserve, Wilbur E., Instructor in Electrical Engineering, Cornell University, Ithaca, N. Y. 1924
Metzenheim, Henry H., Assistant to the President, Assistant Professor of Electrical Engineering, Newark College of Engineering, Newark, N. J. 1926
Michel, Rudolph, Tool and Gauge Designer, U. S. Naval Gun Factory, Washington, D. C.; 603 San Pierre Road, Towson, Md. 1930
Mickey, Clark E., Chairman, Civil Engineering Department, University of Nebraska, Lincoln, Nebr. 1912
Middlemiss, Ross R., Assistant Professor of Mathematics, Washington University, St. Louis, Mo. 1930

MILLAR, A. V., Assistant Dean, College of Engineering, Professor of Drawing and Descriptive Geometry, University of Wisconsin, Madison, Wis. 1914

MILLER, ALFRED L., Associate Professor of Civil Engineering, University of Washington, Seattle, Wash. 1927

MILLER, BENJAMIN L., Professor of Geology, Lehigh University, Bethlehem, Pa. 1925

MILLER, DAYTON C., Professor of Physics, Case School of Applied Science, Cleveland, O. (*Member of Council, 1914–7.*) 1907

MILLER, FORREST E., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn..... 1926

MILLER, GEORGE B., President, Cogswell Polytechnical College, 3000 Folsom Street, San Francisco, Calif. 1930

MILLER, HUGH, Hotel Mayfair, St. Louis, Mo. (*Member of Council, 1923–6.*) 1909

MILLER, H. W., Professor of Mechanism and Engineering Drawing, University of Michigan, Ann Arbor, Mich. 1922

MILLER, HARRY P., Instructor in Electrical Engineering, Pratt Institute, Brooklyn, N. Y. 1926

MILLER, JAMES S., Associate Professor of Electrical Engineering, University of Virginia, University, Va. 1921

MILLER, JOHN B., Instructor in Electrical Engineering, Bucknell University, Lewisburg, Pa. 608 N. Main St., Coudersport, Pa. 1930

MILLER, JOHN M., Instructor in Engineering Drawing, Rice Institute, Houston, Texas 1930

MILLER, WILLIAM J., Professor and Head, Dept. of Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1923

MILLER, WILLIAM T., Instructor in Mechanical Engineering, Purdue University, Lafayette, Ind..... 1930

MILLIGAN, WILLIAM E., Assistant Professor of Metallurgy, Yale University, New Haven, Conn. 1933

MILLINGTON, HOWARD G., Assistant Professor of Mathematics, University of Vermont, Burlington, Vt. 1929

MILLS, JOHN, Director of Publication, Bell Telephone Laboratories, Inc., 463 West St., New York City 1921

MINARIK, R. G., Instructor in Mechanical Engineering, University of California, Berkeley, Calif. 1932

MING, FREDERICK W., Assistant Professor of Mechanical Engineering, Brooklyn Polytechnic Institute, Brooklyn, N. Y. 1918

MINSHALL, ROBERT E., Associate Professor of Structural Engineering, The Pennsylvania State College, State College, Pa... 1921

MITCHELL, ALVA, Professor and Head, Dept. of Drawing, A. and M. College of Texas, College Station, Texas 1926

MITCHELL, C. H., Dean, Faculty of Applied Science and Engineering, University of Toronto, Toronto, Ont. (*Member of Council, 1925–8.*) 1925

MITCHELL, DONALD H., Instructor in Graphics and Mechanical Engineering, Tufts College, Tufts College, Mass. 1933
MITCHELL, GROVER I., Professor of Mechanical Engineering, Grove City College, Grove City, Pa. 1918
MITCHELL, LOUIS, Dean and Professor of Civil Engineering, Syracuse University, Syracuse, N. Y. 1913
MOCK, CLIFTON O., Instructor in Engineering Drawing, University of Kentucky, Lexington, Ky. 1929
MOCK, HARRY L., Assistant Professor of Mathematics, North Carolina State College, Raleigh, N. C. 1932
MOCKMORE, CHARLES A., Associate Professor of Civil Engineering, Oregon State College, Corvallis, Ore. 1927
MOFFAT, GEORGE N., Assistant Professor of Mechanical Engineering, The Ohio State University, Columbus, Ohio 1925
MONTILLON, GEORGE H., Professor of Chemical Engineering, University of Minnesota, Minneapolis, Minn. 1925
MONTONNA, RALPH E., Associate Professor of Chemical Engineering, University of Minnesota, Minneapolis, Minn. 1925
MOODY, HOWARD W., Dean, College of Engineering, Valparaiso University, Valparaiso, Ind. 1925
MOODY, LEWIS F., Professor of Hydraulic Engineering, Princeton University, Princeton, N. J. 1912
MOORE, ARTHUR D., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1926
MOORE, EARL R., Instructor in Mechanical Engineering, Connecticut Agricultural College, Storrs, Conn. 1930
MOORE, G. ROLAND, Consulting Civil Engineer, Manasquan, N. J. 1927
MOORE, H. F., Research Professor of Engineering Materials, University of Illinois, Urbana, Ill. 1905
MOORMAN, ROBERT B. B., Assistant Professor of Civil Engineering, University of Mississippi, University, Miss. 1933
MORE, CHAS. C., Professor of Structural Engineering, University of Washington, Seattle, Wash. (*Member of Council, 1919–22.*) 1901
MOREY, CHARLES W., President, Chicago Technical College, 118 E. 26th Street, Chicago, Ill. 1925
MORGAN, ARTHUR E., President, Antioch College, Chairman, Tennesse Valley Authority, Yellow Springs, O. 1921
MORGAN, JEROME J., Associate Professor of Chemical Engineering, Columbia University, New York City 1925
MORGAN, JESSE R., Dean of the Faculty, Professor of Languages, Colorado School of Mines, Golden, Colo. 1927
MORGAN, THEODORE H., Professor and Head, Dept. of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1927
MORLEY, GEORGE A., Assistant Professor of Engineering Drawing, University of Michigan, Ann Arbor, Mich. 1926

MORLEY, RAYMOND K., Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. 1922
MORRIS, CLYDE T., Professor of Civil Engineering, The Ohio State University, Columbus, O. 1907
MORRISON, GILBERT, Instructor in Civil Engineering, Cooper Union, New York City 1932
MORRISON, IBRAHIM F., Professor of Applied Mechanics, University of Alberta, Edmonton, Alta, Canada 1912
MORRISON, PETER, Instructor in Industrial Engineering, The Ohio State University, Columbus, Ohio 1932
MORRISON, ROGER L., Professor of Highway Engineering and Highway Transport, University of Michigan, Ann Arbor, Mich... 1925
MORSE, FREDERICK T., Assistant Professor of Mechanical Engineering, University of Virginia, University, Va. 1927
MORSE, JAMES L., Designer & Construction Engineer, E. C. Horne Machinery Co., 1263 Ogden St., Denver, Colo. 1910
MORSE, REED F., Instructor in Civil Engineering, Kansas State College, Manhattan, Kansas 1929
MORSS, EVERETT, President, Simplex Wire and Cable Co., 79 Sidney St., Cambridge, Mass. 1910
MORTON, ROSCOE W., Professor of Mechanical Engineering, Colorado School of Mines, Golden, Colo 1929
MOSER, CHAS., Professor of Civil Engineering, Stanford University, Stanford University, Calif. 1918
MOSS, SANFORD A., Research Engineer, Thomson Laboratory, General Electric Co., West Lynn, Mass. 1911
MOTA, CANDELARIO C., Associate Professor and Head, Dept. of Civil Engineering, University of Porto Rico, Mayaguez, P. R. 1925
MOTT, WILLIAM E., Retired, Carnegie Institute of Technology, 315 Wood St., Burlington, N. J. (*Member of Council, 1917–20.*) 1907
MOYER, JAMES A., Director, Division of University Extension, Massachusetts Department of Education, Boston, Mass. 1904
MOYER, RALPH A., Associate Professor of Civil Engineering, Iowa State College, Ames, Iowa 1929
MUELLER, G. V., Assistant Professor of Electrical Engineering, Purdue University, Lafayette, Ind. 1926
MULLIGAN, JAMES E., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass... 1929
MUNCY, VICTOR E., c/o Mrs. A. H. Moore, Ashland, Ky. (Ohio Mechanics Institute). 1926
MUNRO, GEORGE W., Professor of Thermodynamics, Purdue University, Lafayette, Ind. 1915
MUNRO, MELVILLE S., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1914
MUNRO, RONALD J., Instructor in Mechanical Engineering, University of New Mexico, Albuquerque, N. M. 1928

MURAT, SALIH, Professor of Physics, Robert College, and Turkish Engineering School, Istambul, Turkey 1930
MURDOUGH, J. H., Professor and Head, Dept. of Civil Engineering, Texas Technological College, Lubbock, Texas 1926
MURPHY, GLENN, Iowa State College, Ames, Iowa 1929
MURPHY, LINDON J., Municipal Engineer, Engineering Extension Service, Iowa State College, Ames, Iowa 1930
MYERS, HOWARD D., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1922
NAETER, ALBRECHT, Professor and Head, Department of Electrical Engineering, Oklahoma A. & M. College, Stillwater, Okla.... 1924
NASH, C. A., Associate Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1913
NASH, PHILLIP C., President, University of Toledo, Toledo, Ohio. 1921
NEEDY, JOHN A., Dean of Engineering, Ohio Northern University, Ada, Ohio. 1919
NEFF, FRANK H., Professor of Civil Engineering, Case School of Applied Science, Cleveland, O. 1895
NEITZERT, CARL, Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1931
NELSON, DELMAR W., Assistant Professor of Steam and Gas Engineering, University of Wisconsin, Madison, Wis. 1929
NELSON, J. R., Professor of English, University of Michigan, Ann Arbor, Mich. (*Member of Council, 1918–21.*) 1914
NELSON, W. K., Associate Professor of Engineering Mathematics, University of Colorado, Boulder, Colo. 1923
NELSON, WILLIAM P., Director, College Relations, New England T. & T. Co., 50 Oliver Street, Boston, Mass. 1931
NESBITT, RICHARD E., Instructor in Foundry Practice and Mechanical Technology, Pratt Institute, Brooklyn, N. Y. 1930
NESBITT, RUSSELL B., Assistant Professor of Civil Engineering, The Pennsylvania State College, State College, Pa. 1925
NETTLETON, ERNEST B., Assistant Professor of Drawing and Descriptive Geometry, Carnegie Institute of Technology, Pittsburgh, Pa. 1930
NEWCOMB, JOHN L., Professor of Civil Engineering, Acting President, University of Virginia, University, Va. 1915
NEWELL, HOBART H., Assistant Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1925
NEWMAN, ALBERT B., Professor of Chemical Engineering, Cooper Union, New York City 1929
NEWMAN, C. M., Professor of English, Virginia Polytechnic Institute, Blacksburg, Va. 1917
NEWTON, ROGER H., Instructor in Chemical Engineering, Yale University, New Haven, Conn. 1931
NEYHART, AMOS E., Instructor in Industrial Engineering, Pennsylvania State College, State College, Pa. 1933

NICHOLS, BEN H., Instructor in Electrical Engineering, Oregon State College, Corvallis, Ore. 1930

NICHOLS, JOSEPH C., Dean, Engineering College, Fenn College, 2200 Prospect Avenue, Cleveland, Ohio 1929

NICHOLS, MAURICE E., Dean, Evening Division, Fenn College, Cleveland, Ohio 1930

NIELSEN, PAUL E., Instructor in General Engineering Drawing, University of Illinois, Urbana, Ill. 1928

NIGHTINGALE, WINTHROP E., Director of Coöperative Work, Northeastern University, Boston, Mass. 1925

NIMS, ALBERT A., Professor of Electrical Engineering, College of Engineering, Newark, N. J. 1928

NINDE, GEORGE F., Instructor in Engineering Drawing, Harvard Engineering School, Cambridge, Mass. 1928

NOBLE, PHILIP M., Instructor in Applied Mechanics, Kansas State College, Manhattan, Kans. 1931

NOLD, H. E., Professor of Mine Engineering, The Ohio State University, Columbus, O. 1916

NOLLAU, LOUIS E., Professor and Head, Department of Drawing, University of Kentucky, Lexington, Ky. 1928

NORCROSS, AUSTIN S., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1931

NORDENHOLT, GEORGE F., Associate Editor, *Product Engineering*, McGraw-Hill Publishing Co., 10th Avenue at 36th Street, New York, N. Y. 1931

NORMAN, CARL A., Professor of Machine Design, The Ohio State University, Columbus, O. 1918

NORMAN, ROY A., Professor of Mechanical Engineering, Iowa State College, Ames, Iowa .....

NORRIS, EARLE B., Dean of Engineering, Virginia Polytechnic Institute, Blacksburg, Va. (*Member of Council, 1924–7.*).... 1907

NORRIS, FERRIS W., Associate Professor of Electrical Engineering, University of Nebraska, Lincoln, Nebr. 1925

NORRIS, H. H., Supervisor, Personnel and Special Instruction, Boston Elevated Railway, 16 Sheffield West, Winchester, Mass. (*Secretary, 1909–14; Vice President, 1914–5.*) 1900

NORTON, ARTHUR E., Professor of Applied Mechanics, Harvard University, Cambridge, Mass. (*Member of Council, 1931–4.*) 1910

NORTON, CHARLES L., Head, Department of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 1908

NORTON, PAUL T. JR., Professor of Industrial Engineering, Virginia Polytechnic Institute, Blacksburg, Va. 1926

NORTON, PAUL W., Assistant Professor of Architecture, Massachusetts Institute of Technology, Cambridge, Mass. 1926

NUDD, WILLARD E., Assistant Professor of Engineering Drawing, Case School of Applied Science, Cleveland, O. 1923

NYSWANDER, R. E., Professor of Physics and Associate Dean, University of Denver, Denver, Colo. 1912
O'BANION, ALBERT L., 36 Hardy Ave., Watertown, Mass. 1928
O'BANNON, LESTER S., Professor of Heat Engineering, University of Kentucky, Lexington, Ky. 1929
O'BRIEN, A. V., Superintendent, Manufacturers Laboratory, State University of Iowa, Iowa City, Iowa 1923
O'CONNELL, DANIEL J., Professor of Civil Engineering, Manhattan College, New York, N. Y. 1931
O'CONNOR, JOHNSON, Director, Human Engineering Laboratory, Stevens Institute of Technology, Hoboken, N. J. 1931
OEHRLI, JOHN W., 1310 Louisa Street, Williamsport, Pa. 1931
OGBURN, S. CICERO, JR., Chairman, Division of Engineering, Professor of Chemical Engineering, Bucknell University, Lewisburg, Pa. 1928
OGLESBY, EARNEST J., Professor of Engineering Mathematics, University of Virginia, University, Va. 1931
O'HARRA, CLEOPHAS C., President and Professor of Geology, South Dakota State School of Mines, Rapid City, S. D. 1925
OHLE, ERNEST L., Professor of Mechanical Engineering, Washington University, St. Louis, Mo. 1905
OLIVER, FRANK J., Industrial Coördinator, University of Detroit, Detroit, Mich. 1933
OLIVER, WILLIAM A., Associate in Civil Engineering, University of Illinois, Urbana, Ill. 1928
OLMSTED, CHARLES T., Assistant Professor of Engineering Mechanics, University of Michigan, Ann Arbor, Mich. 1929
OLSEN, JOHN C., Professor and Head, Dept. of Chemical Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1930
OLSEN, JOHN C., Instructor in Machine Design, Kansas State College, Manhattan, Kansas 1932
OLSON, OSCAR A., Assistant Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1915
ORBECK, MARTIN J., 401 Wildwood St., Ann Arbor, Mich. 1920
O'ROURKE, EDWARD V., Assistant Professor of Mine Engineering, The Ohio State University, Columbus, Ohio 1929
ORR, JOSEPH A., Assistant Professor of Civil Engineering, A. & M. College of Texas, College Station, Texas 1929
ORTH, H. D., Associate Professor of Drawing and Descriptive Geometry, University of Wisconsin, Madison, Wis. 1910
OSBORNE, L. A., President, Westinghouse Electric International Co., 165 Broadway, New York, N. Y. 1911
OSBURN, ORREN E., Assistant Professor of Electrical Engineering, Washington State College, Pullman, Wash. 1932
O'SHAUGHNESSY, LOUIS, Professor of Applied Mathematics, Virginia Polytechnic Institute, Blacksburg, Va. 1912

OSTRANDER, J. E., Professor of Mathematics and Civil Engineering, Massachusetts Agricultural College, Amherst, Mass..... 1894
OTHUS, JAMES C., Assistant Professor of Mechanics and Materials, Oregon State College, Corvallis, Ore. 1928
OTT, PERCY W., Associate Professor of Mechanics, The Ohio State University, Columbus, Ohio 1925
OTTER, JOHN V., 500 Franklin Street, Boise, Idaho 1929
OWENS, FREDERICK W., Professor and Head, Dept. of Mathematics, The Pennsylvania State College, State College, Pa. 1926
OWENS, HERBERT D. 1927
PADDOCK, RUSSELL G., Professor of Mechanical Engineering, University of Arkansas, Fayetteville, Ark. 1931
PAFFENBARGER, RALPH S., Associate Professor of Engineering Drawing, The Ohio State University, Columbus, Ohio 1932
PAINE, ELLERY B., Professor and Head, Dept. of Electrical Engineering, University of Illinois, Urbana, Ill. 1911
PAJOT, CLAYTON J., 13641 Dexter Blvd., Detroit, Mich. 1932
PALMER, C. E., Professor of Architectural Engineering, University of Illinois, Urbana, Ill. 1928
PALMER, DELOS M., Coordinator, Head, Dept. of Mechanical Engineering, University of Toledo, Toledo, Ohio 1933
PALMER, HERALD K., Instructor in Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1930
PALMER, IRVING A., Professor of Metallurgy, Colorado School of Mines, Golden, Colo. 1926
PALSGROVE, GRANT K., Professor of Hydraulic Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1918
PANGBORN, REDMOND J., 914 N. G St., Tacoma, Wash. 1931
PARK, C. F., Professor of Mechanism, Director of the Mechanical Laboratories, Director of Lowell Institute School for Industrial Foremen, Massachusetts Institute of Technology, Cambridge, Mass. 1903
PARK, C. W., Professor of English, College of Engineering and Commerce, University of Cincinnati, Cincinnati, O. (*Member of Council, 1932–35.*) 1915
PARK, JOHN C., Associate Professor of Civil Engineering, University of Arizona, Tucson, Ariz. 1931
PARKER, ERI B., Assistant Professor of Mechanical Engineering, State College of Washington, Pullman, Wash. 1926
PARKER, J. C., President, Brooklyn Edison Co., Inc., 380 Pearl St., Brooklyn, N. Y. 1916
PARKER, WALTER H., Professor of Mining, University of Minnesota, Minneapolis, Minn. 1925
PARR, BERNARD F., Instructor in Mechanical Engineering, University of Maine, Orono, Maine 1931
PARROTT, ALICE A., Head, Department of English, Tri-State College, Angola, Ind. 1932

PASLAY, LEROY C., Instructor in Electrical Engineering, Kansas State College, Manhattan, Kansas 1932
PATTEN, W. E., Civil Engineer 1915
PATTERSON, L. L., Dean of Engineering, Professor of Electrical Engineering, Mississippi State College, State College, Miss. 1915
PAUL, C. E., Professor of Mechanics, Armour Institute of Technology, Chicago, Ill. 1907
PAUSTIAN, RAYMOND G., Instructor in Civil Engineering, Iowa State College, Ames, Iowa 1930
PAWLOWSKI, FELIX W., Guggenheim Professor of Aeronautics, University of Michigan, Ann Arbor, Mich. 1933
PAYROW, HARRY G., Assistant Professor of Civil Engineering, Lehigh University, Bethlehem, Pa. 1930
PEARCE, C. E., Assistant Professor of Applied Mechanics and Machine Design, Kansas State College, Manhattan, Kans..... 1917
PEARSON, H. G., Professor and Head of English and History, Massachusetts Institute of Technology, Cambridge, Mass. 1923
PEARSON, R. A., President, University of Maryland, College Park, Md. 1914
PECK, JOHN S., Instructor in Charge of Materials Testing Laboratory, College of City of New York, N. Y. 1931
PEEBLES, JAMES C., Professor of Experimental Engineering, Armour Institute of Technology, Chicago, Ill. 1927
PEET, J. C., Professor of Electrical Engineering, College of Engineering, Newark, N. J. 1923
PEFFER, H. C., Head, Dept. of Chemical Engineering, Purdue University, Lafayette, Ind. 1924
PEGRAM, GEORGE B., Professor of Physics, Columbia University, New York, N. Y. (*President, 1925–6; Vice President, 1924–5; Member of Council, 1924–.*) 1918
PENCE, W. D., Consulting Engineer, Room 1947, 120 South La Salle Street, Chicago, Ill. 1895
PENDER, HAROLD, Dean, Moore School of Electrical Engineering, University of Pennsylvania, Philadelphia, Pa. (*Member of Council, 1924–7.*) 1909
PENN, JOHN C., Dean of Engineering, Professor of Civil Engineering, Armour Institute of Technology, Chicago, Ill. 1915
PEREZ, LAWRENCE, Instructor in Civil Engineering, Cooper Union, New York City 1933
PERKINS, DONALD L., Assistant Professor and Head, Dept. of Mechanical Engineering, College of City of Detroit, 15507 Ohio Avenue, Detroit, Mich. 1930
PERRY, F. GARDINER, Director of Research, Babson Statistical Organization, 119 Brook Street, Wellesley Hills, Mass. 1924
PERRY, JOHN E., Assistant Professor of Railroad Engineering, Cornell University, Ithaca, N. Y. 1922

PERRY, LYNN, Assistant Professor of Civil Engineering, Lafayette College, Easton, Pa. 1923
PERRY, ROBERT V., Professor of Machine Design, Director, Evening Classes, Armour Institute of Technology, Chicago, Ill. 1926
PERRYMAN, C. C., Instructor in Engineering Drawing, Texas Technological College, Lubbock, Texas 1929
PETERSON, ANDREW I., Supervisor of Property, New York University, New York City 1933
PETERSON, F. G., Instructor in Civil Engineering, Duluth Junior College, Duluth, Minn. 1929
PERSON, H. T., Associate Professor of Civil Engineering, University of Wyoming, Laramie, Wyo. 1932
PETTEE, C. H., Dean of Faculty, University of New Hampshire, Durham, N. H. 1898
PETTENGILL, TRUE E., Assistant Registrar, University of Minnesota, Minneapolis, Minn. 1927
PETTY, BENJAMIN H., Professor of Highway Engineering, Purdue University, Lafayette, Ind. 1925
PEURIFOY, ROBERT L., Director of Engineering, Professor of Civil Engineering, Texas College of Arts and Industries, Kingsville, Texas 1931
PFEIF, G. H., Director of Industrial Relations, General Electric Co., Schenectady, N. Y. 1918
PHELEY, DONAL B., Instructor in Engineering, Los Angeles Junior College, Los Angeles, Calif. 1933
PHELPS, GUY M., Associate Professor of Descriptive Geometry and Drawing, Rensselaer Polytechnic Institute, Troy, N. Y. 1925
PHELPS, HOWARD E., Professor of Highway Engineering, State College of Washington, Pullman, Wash. 1924
PHILBRICK, HERBERT S., Professor of Mechanical Engineering, Northwestern University, Evanston, Ill. 1913
PHILLIPS, JOHN B., Lecturer in Chemical Engineering, McGill University, 4345 Harvard Avenue, Montreal, Canada 1931
PHILLIPS, MARK C., Associate Professor of Mechanical Engineering, Oregon State Agricultural College, Corvallis, Ore. 1929
PICKELS, GEORGE W., Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1932
PICKETT, GERALD, Instructor in Applied Mechanics, Kansas State College, Manhattan, Kansas 1929
PIERCE, CLARENCE A., Professor of Theoretical Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1925
PINNEY, JAMES C., Consulting Engineer, Box 382, Fort Myers, Fla. 1919
PIPER, FRED. F., Professor of Physics, Clarkson College of Technology, Potsdam, N. Y. 1915
PLANK, WILLIAM B., Head, Dept. of Mining Engineering, Lafayette College, Easton, Pa. 1921

PLANT, L. C., Professor and Head of the Department of Mathematics, Michigan State College, East Lansing, Mich. 1913

PLETTA, DAN H., Assistant Professor of Applied Mechanics, Virginia Polytechnic Institute, Blacksburg, Va. 1932

PLUMMER, FRED L., Associate Professor of Structural Engineering, Case School of Applied Science, Cleveland, Ohio 1930

POLK, ORVAL H., Instructor in Electrical Engineering, University of Arizona, Tucson, Ariz. 1933

POND, FRANCIS J., Professor of Chemistry, Stevens Institute of Technology, Hoboken, N. J. 1912

POND, M. A., Assistant Professor of Civil Engineering, Cornell University, Ithaca, N. Y. 1923

POOLE, FRED L., Associate Professor of Electrical Engineering, Colorado State Agricultural College, Fort Collins, Colo. 1929

POORMAN, A. P., Professor of Applied Mechanics, Purdue University, Lafayette, Ind. (*Member of Council, 1932–35.*) 1907

PORSCH, JOHN H., Assistant Professor of Engineering Drawing and Descriptive Geometry, Purdue University, Lafayette, Ind. 1929

PORTER, DAVID B., Associate Professor of Industrial Engineering, New York University, New York City 1923

PORTER, DWIGHT, Professor Emeritus, Massachusetts Institute of Technology; 149 Hawthorne St., Malden, Mass. 1893

PORTER, FRANCIS M., Assistant Professor of Engineering Drawing, University of Illinois, Urbana, Ill. 1912

PORTER, J. F., President, Kansas City Power & Light Co., Kansas City, Mo. 1912

PORTER, R. A., Professor of Physics, Syracuse University, Syracuse, N. Y. 1908

PORTER, ROLAND G., Associate Professor of Electrical Engineering, Northeastern University, Boston, Mass. 1926

POSEY, CHESLEY J., Instructor in Mechanics and Hydraulics, State University of Iowa, Iowa City, Iowa 1931

POTTER, A. A., Dean, Schools of Engineering, Director, Engineering Experiment Station, Purdue University, Lafayette, Ind. (*President, 1924–5; Vice President, 1919–20; Member of Council, 1916–19; 1924–.*) 1908

POTTER, ORRIN W., Assistant Professor of Engineering Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1925

POTTS, CLYDE, Civil and Sanitary Engineer, 30 Church St., New York City 1922

POUND, JOSEPH H., Professor of Mechanical Engineering, Rice Institute, Houston, Tex. 1916

POWELL, ALBERT P., Instructor in Electrical Engineering, The Pennsylvania State College, State College, Pa. 1926

POWELL, RALPH W., Assistant Professor of Mechanics, The Ohio State University, Columbus, Ohio 1922
PRAGEMAN, IRVING H., Assistant Professor of Mechanical Engineering, University of Maine, Orono, Maine 1923
PRATT, CHARLES, Secretary, Board of Trustees, Pratt Institute, Brooklyn; Glen Cove, L. I., N. Y. 1929
PRENTICE, DONALD B., President, Rose Polytechnic Institute, Terre Haute, Ind. (*Member of Council, 1927–30.*) 1912
PRICE, HAROLD W., Professor of Electrical Engineering, University of Toronto, Toronto, Ont., Canada 1924
PRICE, JOHN R., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1926
PRICE, LEONARD C., Research Associate Professor of Mechanical Engineering, University of Arkansas, Fayetteville, Ark..... 1931
PRIESTER, GEORGE C. Professor of Materials of Engineering, University of Minnesota, Minneapolis, Minn. 1920
PRIOR, JOHN A., Assistant Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1923
PRIOR, JOHN C., Professor of Sanitary Engineering, The Ohio State University, Columbus, Ohio 1926
PRITCHARD, SAMUEL R., Professor of Electrical Engineering, Virginia Polytechnic Institute, Blacksburg, Va. 1914
PUCHSTEIN, ALBERT F., Development Engineer, Robbins & Myers Co., Springfield, Ohio 1928
PUFFER, LOUIS B., Associate Professor of Civil Engineering, University of Vermont, Burlington, Vt. 1922
PULLEN, M. W., Associate in Electrical Engineering, Johns Hopkins University, Baltimore, Md. 1909
PULVER, HARRY E., Professor of Civil and Structural Engineering, University of Wisconsin, Madison, Wis. 1929
PUMPHREY, FRED H., Professor and Head, Dept. of Electrical Engineering, Rutgers University, New Brunswick, N. J. 1928
PUPIN, MICHAEL I., Professor of Physics, Columbia University, New York City 1927
PURCELL, CLARENCE G., Petroleum Engineer, Standard Oil Co. (Ind.), 129 West 11th St., Casper, Wyo. 1931
PURDIE, K. S., Associate Professor of Mathematics, Virginia Military Institute, Lexington, Va. 1927
PURYEAR, CHARLES, Dean Emeritus, Texas A. and M. College, College Station, Texas 1901
PUTNAM, RUSSELL C., Assistant Professor of Electrical Engineering, Case School of Applied Science, Cleveland, Ohio..... 1927
QUAID, LLOYD J., Instructor in Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1931
QUIER, KENNETH E., Instructor in Mechanical Technology, Pratt Institute, Brooklyn, N. Y. 1929

QUIGLEY, LEON V., Counsel on Public Relations, 730 Fifth Avenue, New York City 1927

QUINLAN, ROBERT E., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1931

RABER, B. F., Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1915

RADER, LLOYD F., Assistant Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1925

RAGATZ, ROLAND A., Assistant Professor of Chemical Engineering, University of Wisconsin, Madison, Wis. 1927

RAMSAY, JOSEPH W., Associate Professor of Electrical Engineering, University of Texas, Austin, Texas 1931

RANDALL, JOHN A., President, Rochester Athenaeum and Mechanics Institute, Rochester, N. Y. 1911

RANDOLPH, EDGAR E., Professor of Chemical Engineering, North Carolina State College, Raleigh, N. C. 1932

RANDOLPH, JAMES R., Professor of Mechanical Engineering, Rhode Island State College, Kingston, R. I. 1925

RAPPEL, U. J., Professor of Electrical Engineering, University of Dayton, Dayton, O. 1919

RASCHE, WILLIAM H., Professor of Mechanism, Virginia Polytechnic Institute, Blacksburg, Va. 1931

RATHBUN, JOHN C., Associate Professor of Civil Engineering, College of the City of New York, N. Y. 1925

RAUB, LEO G., Professor of Physics, New River State School, Montgomery, W. Va. 1926

RAUTENSTRAUCH, WALTER, Professor of Industrial Engineering, Columbia University, New York, N. Y. 1931

RAYMOND, ALLAN T., 3501 Bellefontain, Kansas City, Mo. 1927

RAYMOND, F. N., Professor of English, University of Kansas, Lawrence, Kans. 1910

RAYMOND, HOWARD M., President Emeritus, Armour Institute of Technology, Grass Lake, Mich. 1903

RAYMOND, WILLIAM R., Professor of English, Iowa State College, Ames, Ia. 1922

RAYNER, WM. H., Assistant Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1913

READ, THOMAS T., Vinton Professor of Mining Engineering, Columbia University, New York City 1933

REAGAN, LEWIS M., Instructor in Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y. 1933

REBER, LOUIS E., Villa Alwyne, 97 Avenue Des Aresses de Cimiez, Nice, France. (*Member of Council, 1901–7.*) 1893

REED, JOHN C., Associate in Mechanical Engineering, University of Illinois, Urbana, Ill. 1929

REED, K. W., Consulting Engineer, 1839 Wymore Road, East Cleveland, Ohio 1915

REED, PERCY L., Professor of Civil Engineering, University of Florida, Gainesville, Fla. 1914

REEN, CALVIN G., Assistant Professor of Civil Engineering, Gettysburg College, Gettysburg, Pa. 1924

REES, ROBERT I., Assistant Vice President, American T. & T. Company, 195 Broadway, New York City. (*President, 1928–29; Member of Council, 1925–8; 1929–.*) 1924

REESE, RAYMOND C., Special Instructor in Structural Engineering, University of Toledo; Secretary and Chief Engineer, The Hausman Steel Co., Toledo, Ohio 1933

REEVES, EDWARD H., Race Hill Road, Madison, Conn. 1928

REINSCH, BERNHARD P., Professor and Head, Department of Mathematics, Southern College, Lakeland, Fla. 1931

REMICK, B. L., Professor of Mathematics, Kansas State College, Manhattan, Kans. 1915

REPSCHA, ALBERT A., Instructor in Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1933

RETTGER, ERNEST W., Professor of Applied Mechanics, Cornell University, Ithaca, N. Y. 1927

REULING, WALTER E., Assistant Professor of Mechanical Engineering, Michigan State College, East Lansing, Mich. 1929

REW, IRWIN, Trusteee of Northwestern University, 217 Dempster St., Evanston, Ill. 1913

REYNOLDS, EDWARD E., Instructor in Electrical Engineering, Purdue University, Lafayette, Ind. 1931

REYNOLDS, JAMES A., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1922

REYNOLDS, JOSEPH B., Professor of Mathematics and Theoretical Mechanics, Lehigh University, Bethlehem, Pa. 1920

RHOADS, ROBERT L., 1125 Union St., San Francisco, Calif. 1925

RHODES, LELAND S., Associate Professor of Civil Engineering, The Pennsylvania State College, State College, Pa. 1925

RHODES, SAM R., Professor and Head, Division of Electrical Engineering, Clemson Agricultural College, Clemson College, S. C. 1927

RHODES, WALTER K., Professor of Electrical Engineering, Bucknell University, Lewisburg, Pa. 1925

RICE, ANDREW C., ... 1931

RICE, HARRIS, Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. 1919

RICE, H. A., Professor and Head, Dept. of Civil Engineering, University of Kansas, Lawrence, Kans. 1915

RICE, PAUL P., Instructor in Civil Engineering, Lafayette College, Easton, Pa. 1932

RICE, PHILIP X., Assistant Professor of Electrical Engineering, The Pennsylvania State College, State College, Pa. 1931

RICE, ROBERT B., Associate Professor of Mechanical Engineering, Newark College of Engineering, Newark, N. J. 1931

RICH, KENNETH W., Head of Mechanical Department, Kern Co. Junior College, Bakersfield, Calif. 1933

RICHARDS, CHARLES RUSS, President, Lehigh University, Bethlehem, Pa. (*Vice President, 1914–5; Member of Council, 1910–3.*) 1895

RICHARDSON, DONALD E., Assistant Professor of Electrical Measurements, Armour Institute of Technology, Chicago, Ill. 1929

RICHEY, JOHN J., Professor of Civil Engineering, A. & M. College of Texas, College Station, Tex. (*Member of Council, 1926–9.*) 1910

RICHMOND, ADDISON E., Instructor in Civil Engineering, Howard University, Washington, D. C. 1931

RICHMOND, ALLEN P., Assistant to Secretary, Am. Soc. C. E., 33 West 39th St., New York City 1927

RICHMOND, RUSSELL F., Assistant Testing Engineer, University of Nebraska, Lincoln, Nebr. 1926

RICKER, CLAIRE W., Professor of Electrical Engineering, Tulane University, New Orleans, La. 1921

RICHTER, A. W., President, Price Mfg. Co., Yakima, Wash. 1894

RICKLEY, OSCAR D., Assistant Professor of Industrial Engineering, Ohio State University, Columbus, Ohio 1929

RIDD, STANLEY J., Assistant to General Manager, American Creosoting Company, Louisville, Ky. 1928

RIETZ, HENRY LEWIS, Professor and Head of Department of Mathematics, The State University of Iowa, Iowa City, La. .. 1919

RIGGS, H. E., Honorary Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1913

RIGGS, NORMAN C., Professor of Applied Mechanics, Carnegie Institute of Technology, Pittsburgh, Pa. (*Member of Council, 1929–32.*) 1907

RISING, JUSTUS, Professor of Practical Mechanics, Purdue University, Lafayette, Ind. 1926

RITTENHOUSE, L. H., Professor of Electrical Engineering, in charge of Engineering, Haverford College, Haverford, Pa. 1906

ROARK, RAYMOND J., Associate Professor of Mechanics, University of Wisconsin, Madison, Wis. 1919

ROBB, JAMES M., Head, Dept. of Mathematics and Physics, Taft Union High School and Junior College, Taft, Calif. 1933

ROBB, ROBERT E., 3062 Tyler Avenue, Fresno, Calif. 1927

ROBBINS, ARTHUR G., Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1894

ROBERT, JAMES M., Professor of Machine Design, Tulane University, New Orleans, La. 1922

ROBERT, JULES H., Professor of Applied Mechanics, Kansas State College, Manhattan, Kans. 1926

ROBERTS, CHARLES P., Assistant Professor of Mechanical Engineering, The Ohio State University, Columbus, Ohio 1926

ROBERTS, EMERSON B., Educational Dept., Westinghouse E. & M. Co., East Pittsburgh, Pa. 1919

ROBERTS, JEAN M., Assistant Professor of Electrical Engineering, University of Louisville, Louisville, Ky. 1930

ROBERTS, MILNOR, Professor of Mining Engineering, University of Washington, Seattle, Wash. 1910

ROBERTSON, BURTON J., Associate Professor of Internal Combustion Engines, University of Minnesota, Minneapolis, Minn. 1922

ROBERTSON, BURTON L., Assistant Professor of Electrical Engineering, University of California, Berkeley, Calif. 1930

ROBINSON, LESLIE L., 430 Woodland Ave., Akron, Ohio 1931

ROBINSON, MAX B., Director of Coördination, Fenn College, Cleveland, Ohio 1915

ROCKWELL, EDWARD H., Simon Cameron Long Professor of Civil Engineering and Director of Department, Lafayette College, Easton, Pa. (*Member of Council, 1919–22.*) 1907

RODHOUSE, T. J., Professor of Hydraulic Engineering, University of Missouri, Columbia, Mo. 1904

RODMAN, WALTER S., Professor of Electrical Engineering, Acting Dean, University of Virginia, University, Va. (*Vice President, 1926–7; Member of Council, 1919–22.*) 1915

ROE, HARRY B., Professor of Agricultural Engineering, in charge of Reclamation Activities, University of Minnesota, University Farm, St. Paul, Minn. 1925

ROE, JOSEPH W., Professor of Industrial Engineering, New York University, New York City 1908

ROEHRIG, GEORGE F., Assistant Professor of Civil Engineering, Lafayette College, Easton, Pa. 1926

ROEMMELE, HERBERT F., Instructor in Mechanical Engineering, Cooper Union, New York City 1927

ROESCH, DANIEL, Professor of Automotive Engineering, Armour Institute of Technology, Chicago, Ill. 1922

ROGERS, ALLEN, Head, Dept. of Chemical Engineering, Pratt Institute, Brooklyn, N. Y. 1926

ROGERS, CHARLES E., Professor of Civil Engineering, Trinity College, Hartford, Conn. 1917

ROGERS, H. S., President, Brooklyn Polytechnic Institute, Brooklyn, N. Y. (*Vice President, 1932–33; Member of Council, 1928–31.*) 1922

ROLLINS, EDWIN B., Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1912

ROOD, JAS. T. 1927

ROOT, RALPH E., Professor of Mathematics and Mechanics, Postgraduate School, U. S. Naval Academy, Annapolis, Md. 1914

RORTY, M. C., Old Spout Farm, Lusby, Calvert Co., Md. 1912

ROSE, FRANK W., Instructor in Surveying, Taft Union High School and Junior College, Taft, Calif. 1933

ROSE, FRANKLIN O., Assistant Professor of Mechanical Engineering, Modesto Junior College, Modesto, Calif. 1928

ROSEBRUGH, T. R., Professor of Electrical Engineering, University of Toronto, Toronto, Ontario, Canada 1896

ROSING, ANTON S., Editor, *The Taxpayer*, 1315 S. Main St., Middletown, Ohio 1911

ROSS, DAVID E., Chairman, Board of Trustees, Purdue University, Ross Building, Lafayette, Ind. 1931

ROSS, JOHN A., Junior Dean of Administration, Professor of Mechanical Engineering, Clarkson College of Technology, Potsdam, N. Y. 1926

ROSSELL, HENRY E., Professor of Naval Construction, Massachusetts Institute of Technology, Cambridge, Mass. 1929

ROSSMASSLER, CARL, Professor of Machine Design and Mechanical Drawing, Cooper Union, New York City 1925

ROTH, CHARLES O., JR., Instructor in Civil Engineering, Cooper Union, New York City 1932

ROUDEBUSH, R. E., Associate Professor of Mechanical Engineering, Iowa State College, Ames, Iowa 1932

ROUNTREE, HARRY C., Instructor in Engineering Extension, The Pennsylvania State College, Erie, Pa. 1933

ROWE, JOSEPH E., President, Clarkson College of Technology, Potsdam, N. Y. 1928

ROWELL, L. D., Professor of Electrical Engineering, Purdue University, Lafayette, Ind. 1910

ROWLEY, F. B., Professor of Mechanical Engineering; Director, Experimental Engineering Laboratories, University of Minnesota, Minneapolis, Minn. 1910

ROYS, FRANCIS W., Professor and Head, Dept. of Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. .. 1925

RUBENKOENIG, HARRY, Professor of Railway Mechanical Engineering, Purdue University, Lafayette, Ind. 1920

RUBEY, HARRY, Chairman, Civil Engineering Dept., University of Missouri, Columbia, Mo. (*Member of Council, 1932–35.*) ... 1917

RUGG, W. S., Vice President in charge of Engineering, Westinghouse E. and M. Co., East Pittsburgh, Pa. 1926

RUGGLES, SYDNEY L., Resident Engineer, State Highway Department, 4 Williams Terrace, Bellows Falls, Vt. 1931

RUNNING, THEODORE R., Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1918

RUSH, HARRY S., Professor of Electrical Engineering, North Dakota Agricultural College, Fargo, N. D. 1919

RUSS, JOHN M., Associate Professor of Engineering Drawing, The Ohio State University, Columbus, Ohio 1924

RUSSELL, CHESTER, Assistant Professor of Electrical Engineering, University of New Mexico, Albuquerque, N. M. 1930

RUSSELL, FRANK A., Professor of Railway Engineering, University of Kansas, Lawrence, Kans. 1922

RUSSELL, WALTER B., Director, Franklin Union, Boston, Mass. (*Member of Council, 1907–10.*) 1903

RYAN, HARRIS J., Professor of Electrical Engineering, Emeritus, Stanford University, 525 Embarcadero Road, Palo Alto, Calif. 1901

RYAN, JAMES J., Assistant Professor of Machine Design, University of Minnesota, Minneapolis, Minn. 1931

RYAN, WILLIAM T., Professor of Electric Power Engineering, University of Minnesota, Minneapolis, Minn. 1911

RYON, LEWIS B., JR., Professor of Civil Engineering, Rice Institute, Houston, Texas 1925

SABBAGH, ELIAS M., Instructor in Electrical Engineering, Purdue University, Lafayette, Ind. 1930

SACKETT, R. L., Dean, School of Engineering, Director, Engineering Experiment Station and of Engineering Extension, Pennsylvania State College, State College, Pa. (*Member of Council 1897–00; 1927–; President, 1927–8.*) 1923

SADLER, HERBERT C., Dean, College of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1907

SAHAG, LEON M., Associate Professor of Machine Design, Alabama Polytechnic Institute, Auburn, Ala. 1927

SAILER, LESTER R., Instructor in Electrical Engineering, Columbia University, New York, N. Y. 1931

SALATHE, ALBERT, Associate Professor of Chemical Engineering, Syracuse University, Syracuse, N. Y. 1929

SALMA, EMANUEL A., Instructor in Mechanical Engineering, Cooper Union, New York, N. Y. 1930

SANDERS, WILLIAM B., Associate Professor of Applied Mechanics, Purdue University, Lafayette, Ind. 1922

SANTO, J. H., Dean, Ely Junior College, Ely, Minn. 1926

SARASON, SAMUEL D., Professor of Civil Engineering, L. C. Smith College of Applied Science, Syracuse University, N. Y. 1918

SATTERFIELD, HOWARD E., Associate Professor of Mechanical Engineering, North Carolina State College, Raleigh, N. C. 1932

SAUERS, JOHN A., Assistant Professor of Mechanical Engineering Design, Purdue University, Lafayette, Ind. 1921

SAVANT, D. P., Professor of Electrical Engineering, Georgia School of Technology, Atlanta, Ga. 1917

SAVILLE, THORNDIKE, Professor of Hydraulic and Sanitary Engineering, New York University, New York City 1915

SAWDON, WILL M., Professor of Experimental Engineering, Cornell University, Ithaca, N. Y. 1933

SAWYER, RALPH A., Instructor in Drawing, University of Maine, Orono, Maine 1931

SAXTON, REN G., Professor and Head, Dept. of Civil Engineering, Oklahoma A. and M. College, Stillwater, Okla. 1925
SAYRE, MORTIMER F., Associate Professor of Applied Mechanics, Union College, Schenectady, N. Y. 1917
SCAMMAN, WILLIAM F., Assistant Professor of English, University of Maine, Orono, Me. 1927
SCHAD, BERNARD T., Professor of Civil Engineering, University of Dayton, Dayton, O. 1923
SCHEALER, SAMUEL R., Professor and Head, Department of Electrical Engineering, Duke University, Durham, N. C. 1911
SCHERGER, GEORGE L., Professor of History and Political Science, Armour Institute of Technology, Chicago, Ill. 1927
SCHEVE, CARL J. 1931
SCHMIDT, EDWARD C., Professor and Head, Department of Railway Engineering, University of Illinois, Urbana, Ill. 1907
SCHMIDT, HARRY P., Instructor in Physical Elements of Engineering, Pratt Institute, Brooklyn, N. Y. 1930
SCHNEIDER, HERMAN, Dean, University of Cincinnati, Cincinnati, O. (*Member of Council, 1908–11.*) 1903
SCHOLER, CHARLES H., Professor of Applied Mechanics, Kansas State College, Manhattan, Kans. 1925
SCHOMMER, JOHN T., Associate Professor of Industrial Chemistry, Armour Institute of Technology, Chicago, Ill. 1928
SCHONE, FRANK P., Associate Professor of Descriptive Geometry and Drawing, State University of Iowa, Iowa City, Iowa 1924
SCHRADER, HERMAN J., Associate in Railway Mechanical Engineering, University of Illinois, Urbana, Ill. 1925
SCHROEDER, WILLIAM, Instructor in Mechanical Engineering, University of Idaho, Moscow, Idaho 1929
SCHUCK, ROBERT F., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. .. 1925
SCHUMANN, CHARLES H., JR., Assistant Professor of Drawing, Columbia University, New York City 1925
SCHUYLER, WILLIAM H., Professor of Chemical Engineering, Bucknell University, Junior College, Wilkes-Barre, Pa. 1931
SCHWANTES, ARTHUR J., Associate Professor of Agricultural Engineering, University of Minnesota, St. Paul, Minn. 1926
SCHWARZE, C. T., Professor of Civil Engineering, New York University, University Heights, New York, N. Y. 1912
SCHWARTZ, FRANK L., Instructor in Physical Elements of Engineering, Pratt Institute, Brooklyn, N. Y. 1930
SCHWEIZER, PAUL E., Assistant Professor of Mechanical Engineering, Newark College of Engineering, Newark, N. J. 1926
SCIPIO, L. A., Dean and Professor of Mechanical Engineering, Robert College, Constantinople, Turkey 1910
SCOATES, D., Professor and Head, Dept. of Agricultural Engineering, A. and M. College of Texas, College Station, Tex. 1923

SCOFIELD, HERBERT H., Professor of Materials, Cornell University, Ithaca, N. Y. 1922

SCOTT, CHARLES F., Emeritus, Professor of Electrical Engineering Yale University, New Haven, Conn. (*President, 1921–2, 1922–3; Member of Council, 1907–10; 1917–20; 1921–; chairman, Board of Investigation and Coordination, 1922–.*) **Third Recipient Lamme Medal (1930.)** 1904

SCOTT, LUTHER C., Associate Professor of Industrial Engineering and Geology, Toledo University, Toledo, O. 1919

SCRIMSHAW, STEWART, Professor of Industrial Relations, Marquette University, Milwaukee, Wis. 1925

SEABURY, GEORGE T., Secretary, American Society of Civil Engineers, 33 West 39th Street, New York City 1926

SEARLES, CHARLES L., Chief, Educational Division, Western Electric Company, Kearny, N. J. 1930

SEATON, R. A., Dean, Division of Engineering, Director, Engineering Experiment Station, Kansas State College, Manhattan, Kans. (*President, 1932–33; Vice President, 1930–31; Member of Council, 1926–9; 1930–.*) 1912

SEAVER, HENRY L., Professor of History, Massachusetts Institute of Technology, Cambridge, Mass. 1908

SECHRIST, GILBERT H., Associate Professor of Electrical Engineering, in charge of Department, University of Wyoming, Laramie, Wyo. 1927

SEELEY, WALTER J., Professor of Electrical Engineering, Duke University, Durham, N. C. 1927

SEELY, F. B., Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1913

SELLERS, GABE A., Professor of Metallurgy, Kansas State College, Manhattan, Kans. 1926

SELVIDGE, ROBERT W., Chairman, Department Mechanical Engineering, University of Missouri, Columbus, Mo. 1922

SERVISS, FREDERICK L., Associate Professor of Engineering Geology, Purdue University, Lafayette, Ind. 1929

SETCHELL, JOHN E., Instructor in Mechanical Engineering, Brooklyn Polytechnic Institute, Brooklyn, N. Y. 1927

SETTE, FRANCIS J., Associate Professor of Sanitary Engineering, Virginia Polytechnic Institute, 337 Post Office Bldg., Richmond, Va. 1925

SEVERINGHAUS, WILLARD L., Associate Professor of Physics, Columbia University, New York City 1927

SEWARD, H. L., Robert Higgin Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1910

SEXTON, F. H., President, Nova Scotia Technical College, Halifax, Nova Scotia 1908

SEYFERT, SEYFERT S., Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1908

SHAAD, GEORGE C., Dean, School of Engineering and Architecture, University of Kansas, Lawrence, Kans. (*Member of Council, 1922–5.*) 1907

SHAFFER, HAROLD A., Assistant Professor of Electrical Engineering and Drawing, Bucknell University, Lewisburg, Pa. 1927

SHANK, JACOB RALPH, Professor of Civil Engineering, Research Professor, Engineering Experiment Station, The Ohio State University, Columbus, O. 1919

SHATTUCK, HAROLD B., Professor of Railroad Engineering, Pennsylvania State College, State College, Pa. 1906

SHAW, EDWIN A., Head, Department of Education, Tufts College, Tufts College, Mass. 1921

SHAW, H. B., Professor of Industrial Engineering, North Carolina State College, Raleigh, N. C. 1907

SHEDD, THOMAS C., Associate Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1925

SHEIRY, EDWARD S., Professor and Head, Dept. of Civil Engineering, Robert College, Constantinople, Turkey 1928

SHELDON, DAWSON C., Associate Professor of Mathematics, Clemson College, Clemson College, S. C. 1931

SHELDON, ERNEST W., Professor of Mathematics, University of Alberta, Edmonton, Canada 1931

SHENK, D. H., Associate Professor of Mechanical Engineering, Clemson Agricultural College, Clemson College, S. C. 1928

SHEPPARD, H. S., Dept. of Development & Research, American Telephone & Telegraph Co., 195 Broadway, New York, N. Y. 1914

SHERLOCK, ROBERT H., Associate Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1925

SHERMAN, CHRISTOPHER E., Professor of Civil Engineering, The Ohio State University, Columbus, Ohio 1907

SHERMAN, GEORGE W., JR., Associate Professor of Physics, Purdue University, Lafayette, Ind. 1929

SHERWOOD, WM. W., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1932

SHIPMAN, FRANK M., Assistant Professor of Chemical Engineering, University of Louisville, Louisville, Ky. 1930

SHOOP, C. F., Professor of Steam Engineering, University of Minnesota, Minneapolis, Minn. 1906

SHOREY, LAWRENCE F., Instructor in Electrical Engineering, University of Vermont, Burlington, Vt. 1926

SHORT, BRYON E., Adjunct Professor of Mechanical Engineering, University of Texas, Austin, Texas 1931

SHORT, R. L., Principal, Ashland School, 3921 N. Newstead St., St. Louis, Mo. 1902

SHOUDY, W. A., Associate Professor of Mechanical Engineering, Columbia University, New York City 1925

SHREVE, R. NORRIS, Professor of Chemical Engineering, in charge of Organic Technology, Purdue University, Lafayette, Ind... 1930
SIBLEY, F. H., Dean, College of Engineering, University of Nevada, Reno, Nev. (in charge, Dept., M. E., University of Vermont, 1931–32). 1910
SILER, RODERICK W., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1926
SILVEY, O. W., Professor of Physics, A. & M. College of Texas, College Station, Tex. 1917
SIMESTER, JOHN H., Assistant Professor of Mathematics, University of Louisville, Louisville, Ky. 1930
SINGER, FERDINAND L., Instructor in Mechanical Engineering, New York University, New York, N. Y. 1930
SINK, R. S., Associate Professor of Mechanical Engineering, University of Wyoming, Laramie, Wyo. 1926
SIROKY, EDMOND, Associate Professor of Applied Mathematics, Washington University, St. Louis, Mo. 1930
SITZ, EARL L., Instructor in Electrical Engineering, Kansas State College, Manhattan, Kansas 1932
SJOGREN, C. A., Assistant Professor of Mechanical Engineering, University of Nebraska, Lincoln, Nebr. 1925
SKENE, FREDERICK, Dean, Professor of Civil and Mechanical Engineering, College of the City of New York, New York City 1927
SKILES, W. V., Dean, Georgia School of Technology, Atlanta, Ga. 1919
SKINKLE, JAY W., Personnel Assistant, Western Electric Company, Inc., 195 Broadway, New York City 1929
SLACK, EDGAR P., Assistant Professor of Physics, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1927
SLACK, FRANCIS G., Associate Professor of Physics, Vanderbilt University, Nashville, Tenn. 1925
SLADE, JAMES J., JR., Assistant Professor of General Engineering, Rutgers University, New Brunswick, N. J. 1933
SLANTZ, FRED W., Professor of Graphics, Lafayette College, Easton, Pa. 1930
SLAYMAKER, P. K., Professor of Machine Design, University of Nebraska, Lincoln, Nebr. 1910
SLAYMAKER, ROBERT R., Associate Professor of Mechanical Engineering, Southern Methodist University, Dallas, Texas..... 1931
SLICHTER, W. I., Professor of Electrical Engineering, Columbia University, New York, N. Y. 1911
SLINGESLAND, SAMUEL, Instructor and Mechanician, Stevens Institute of Technology, Hoboken, N. J. 1925
SLOAN, ROYAL D., Professor and Head, Dept. of Electrical Engineering, State College of Washington, Pullman, Wash. 1926
SLOANE, ALVIN, Instructor in Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1927

SLOBIN, HERMAN L., Professor and Head of Department of Mathematics, University of New Hampshire, Durham, N. H..... 1923
SLUSS, A. H., Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans 1915
SMITH, EARL B., Professor of Mechanical Engineering, College of City of New York, New York, N. Y. 1926
SMITH, ELLIOTT D., Professor of Industrial Engineering, Master, Saybrook College, Yale University, New Haven, Conn..... 1928
SMITH, FINLEY W., Instructor in Electrical Engineering, Lafayette College, Easton, Pa. 1933
SMITH, FRANK M., Associate Professor of Civil Engineering, North Texas Agricultural College, Arlington, Texas 1931
SMITH, FINLEY W., Instructor in Electrical Engineering, Lafayette College, Easton, Pa. 1933
SMITH, G. WALLACE, University of North Carolina, Chapel Hill, N. C. 1930
SMITH, PAUL C., Assistant Professor of Electrical Engineering, Municipal University of Akron, Akron, Ohio 1925
SMITH, RALPH A., Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1922
SMITH, RICHARD H., Professor of Aeronautics, Massachusetts Institute of Technology, Cambridge, Mass. 1933
SMITH, THEODORE T., Professor of Experimental Physics, University of Nebraska, Lincoln, Nebr. 1925
SMITH, WALDO E., Assistant Professor of Civil Engineering, North Dakota State College, Fargo, N. D. 1932
SMITH, WILLIAM G., Professor of Engineering Drawing, Northwestern University, Evanston, Ill. 1925
SMITH, W. L., Professor and Head, Department of Electrical Engineering, Northeastern University, Boston, Mass. 1927
SMITH, W. SHERMAN, Assistant Professor of Civil Engineering, University of City of Toledo, Ohio 1930
SMUTZ, FLOYD A., Associate Professor of Machine Design, Kansas State College, Manhattan, Kansas 1929
SMYTHE, R. ERIC, Director, Technical Service Council, 15 Queen's Park, Toronto, 12, Ont. 1928
SNOW, CHAS. H., Emeritus Dean, College of Engineering and Professor of Civil Engineering, New York University, 12 Lake Ave., Yonkers, N. Y. 1895
SNOW, FRANKLIN C., Professor of Civil Engineering, Georgia School of Technology, Atlanta, Ga. 1929
SNOW, JOHN E., Professor of Electric Power Production, Armour Institute of Technology, Chicago, Ill. 1921
SNYDER, M. K., Head, Dept. of Civil Engineering, Professor of Sanitary Engineering, Washington State College, Pullman, Wash. 1927

SOBEY, ALBERT, Director, General Motors Institute of Technology, Flint, Mich. 1923
SOLBERG, HARRY L., Associate Professor of Mechanical Engineering, Purdue University, Lafayette, Ind. 1924
SOLT, MARVIN R., Assistant Professor of Mathematics, University of New Hampshire, Durham, N. H. 1931
SORENSEN, R. W., Professor of Electrical Engineering, California Institute of Technology, Pasadena, Calif. 1912
SORENSON, ALFRED E., Assistant Professor of Mechanical Engineering, Princeton University, Princeton, N. J. 1931
SPAHR, ROBERT H., Director, Curriculum and Instruction Development, General Motors Institute of Technology, Flint, Mich... 1928
SPARROW, T. A., Instructor in Mechanical Engineering, University of Maine, Orono, Maine 1927
SPEAR, JOSEPH, Professor and Chairman, Dept. of Mathematics, Northeastern University, Boston, Mass. 1926
SPENCER, F. A., Professor of Electrical Engineering in charge of Dept., Norwich University, Northfield, Vt. 1920
SPENCER, HENRY C., Instructor in Engineering Drawing, Texas A. & M. College, College Station, Texas 1931
SPENCER, ROBERT L., Dean of Engineering, University of Delaware, Newark, Del. 1928
SPENCER, W. R., Professor of Civil Engineering, University of Arkansas, Fayetteville, Ark. 1926
SPINNEY, L. B., Professor and Head, Dept. of Physics, Iowa State College, Ames, Ia. 1899
SPOFFORD, C. M., Hayward Professor of Civil Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1901
SPOONER, H. J., Late Director and Professor of Mechanical and Civil Engineering, Polytechnic School of Engineering, 5 St. Georges Terrace, Regents Park, London, England 1912
SPRAGUE, EMBERT H., Professor of Civil Engineering, University of Maine, Orono, Me. 1918
SPRINGER, CLIFFORD H., Associate in General Engineering Drawing, University of Illinois, Urbana, Ill. 1927
SPRINGER, GEORGE P., Assistant Professor of Civil Engineering, Purdue University, Lafayette, Ind. 1930
SQUIRE, EDWARD J., Professor of Structural Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1929
ST. PETER, W. N., Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1928
STALEY, ALLEN C., Director of Sales and Engineering, Chrysler Corp., Detroit, Mich. 1915
STANTON, CHAS. B., Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1915
STAPLEY, EDWARD R., Associate Professor of Civil Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1926

STARR, CHARLES J., Instructor in Mechanical Engineering, University of Illinois, Urbana, Ill. 1921
STAVELY, EARL B., Professor of Electrical Engineering, The Pennsylvania State College, State College, Pa. 1920
STEARNS, FREDERICK A., Assistant Professor of Mechanical Engineering, Northeastern University, Boston, Mass. 1926
STEEL, ERNEST W., Professor of Municipal and Sanitary Engineering A. and M. College of Texas, College Station, Tex..... 1926
STEELE, J. N., Instructor in Foundry Work, Dickinson High School, Jersey City, N. J. 1912
STEFANI, LUIS, Professor of Mechanical Engineering, University of Porto Rico, Mayaguez, P. R. 1933
STEINER, FATHER, Dean, College of Engineering, University of Notre Dame, Ind. 1929
STEINMAN, D. B., Consulting Engineer, 117 Liberty St., New York, N. Y. 1910
STELZNER, WILLIAM B., Professor of Electrical Engineering, University of Arkansas, Fayetteville, Ark. 1914
STEMPEL, W. M., Assistant Professor of Physics, Stevens Institute of Technology, Hoboken, N. J. 1928
STEPHENSON, LEONIDAS D., Instructor in Civil Engineering, University of Maine, Orono, Maine 1931
STEPHENSON, S. A., JR., Associate Professor of Civil Engineering, Rutgers University, New Brunswick, N. J. 1910
STETSON, GEORGE A., Editor, American Society of Mechanical Engineers, 29 West 39th Street, New York City. (*Member of Council, 1931–4.*) 1926
STEVENS, A. C., Head, Educational Sales Section, General Electric Co., Schenectady, N. Y. 1912
STEVENS, WILLIAM J., Assistant Professor of Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1929
STEWARD, ROBERT K., Professor and Head, Dept. of Drawing and Design, Michigan Agricultural College, East Lansing, Mich. 1910
STEWART, EARL H., Assistant Professor of Drawing and Design, Michigan State College, East Lansing, Mich. 1925
STEWART, FREDERICK C., Associate Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. 1928
STEWART, G. W., Professor of Physics, State University of Iowa, Iowa City, Ia. 1910
STEWART, L. B., Professor of Surveying and Geodesy, Faculty of Applied Science and Engineering, Toronto University, Toronto, Ontario, Canada. 1897
STEWART, LOWELL O., Associate Professor of Civil Engineering, Iowa State College, Ames, Iowa 1927
STEWART, OSCAR M., Professor of Physics, University of Missouri, Columbia, Mo. 1909

STEWART, V. T., Professor of Chemical Engineering, College of Engineering, Newark, N. J. 1923
STILL, ALFRED, Professor of Electrical Engineering, Purdue University, Lafayette, Ind. 1930
STILLWELL, L. B., Consulting Engineer, Union League Club, New York, N. Y. 1912
STINSON, KARL W., Associate Professor of Automotive Engineering, The Ohio State University, Columbus, Ohio 1924
STOCK, ORION L., Professor of Drawing and Descriptive Geometry, Rose Polytechnic Institute, Terre Haute, Ind. 1929
STOCKER, GEORGE P., Professor and Head, Dept. of Civil Engineering, University of Arkansas, Fayetteville, Ark. 1921
STOCKWELL, FRANK C., Anson Wood Burchard Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914
STOLWORTHY, EDWARD H., Assistant Professor of Mechanical Engineering, University of New Hampshire, Durham, N. H. .. 1923
STONE, CHAS. W., Consulting Engineer, General Electric Co., Schenectady, N. Y. 1911
STONE, O. M., Assistant Professor of Drawing and Descriptive Geometry, Case School of Applied Science, Cleveland, Ohio.. 1928
STOUGHTON, BRADLEY, Director, Department of Metallurgical Engineering, Lehigh University, Bethlehem, Pa. 1923
STOUT, CLAUDE E., Professor and Head, Department of Mathematics, General Motors Institute of Technology, Flint, Mich. 1931
STOUT, MELVILLE B., Assistant Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1929
STRAHAN, SAMUEL A. S., Professor and Head, Dept. of Chemical Engineering, Northeastern University, Boston, Mass. 1926
STRAITON, A. W., Assistant Professor of Electrical Engineering, Texas College of Arts and Industries, Kingsville, Texas 1933
STRANE, ARCHIBALD J., Instructor and Head, Mathematics Dept., Duluth Junior College, Duluth, Minn. 1932
STRATE, J. T., Professor of Mechanical Engineering, South Dakota State College, Brookings, S. D. 1932
STRAUB, LORENZ G., Associate Professor of Hydraulics, University of Minnesota, Minneapolis, Minn. 1930
STREET, WILLIAM E., Instructor in Engineering Drawing, Texas Technological College, Lubbock, Texas 1929
STREUBEL, ERNEST J., Dean, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1925
STRONG, ALBERT J., Professor of Drawing and Mechanic Arts, University of Florida, Gainesville, Fla. 1913
STUART, M. C., Professor of Experimental Engineering, Lehigh University, Bethlehem, Pa. 1921
STUBBS, FRANK W., JR., Assistant Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1933

SULLIVAN, GEO. L., Dean, College of Engineering, University of Santa Clara, Santa Clara, Calif. 1912

SUMMERS, R. E., Assistant Professor of Mechanical Engineering, Oregon Agricultural College, Corvallis, Ore. 1927

SUMMEY, GEORGE, JR., Professor and Head, Dept. of English, A. & M. College of Texas, College Station, Tex. 1919

SUMWALT, ROBERT L., Professor and Head, Dept. of Civil Engineering, University of South Carolina, Columbia, S. C. 1933

SUTHERLAND, C. HALE, Professor and Head, Dept. of Civil Engineering, Lehigh University, Bethlehem, Pa. 1914

SUTHERLAND, LEWIS B., Instructor in Architectural Engineering, University of Colorado, Boulder, Colo. 1932

SUTTIE, ROSCOE H., Associate Professor of Civil Engineering, Yale University, New Haven, Conn. 1912

SVENSEN, CARL L., Professor and Head, Department of Engineering Drawing, Texas Technological College, Lubbock, Texas. 1900

SWAIM, VERNE F., Professor of Physics, Bradley Polytechnic Institute, Peoria, Ill. 1919

SWARTZ, BLAIR K., Personnel Research, Detroit Edison Company, Detroit, Mich. 1931

SWEETSER, E. O., Professor of Structural Engineering, Acting Head, Dept. of Civil Engineering, Washington University, St. Louis, Mo. 1910

SWEETSER, W. J., Professor of Mechanical Engineering, University of Maine, Orono, Me. 1910

SWEIGERT, RAY L., Associate Professor of Mechanical Engineering, Georgia School of Technology, Atlanta, Ga. 1929

SWENSON, GEORGE W., Professor and Head, Department of Electrical Engineering, Michigan College of Mining and Technology, Houghton, Mich. 1928

SWETT, GEORGE W., Professor of Machine Design, Massachusetts Institute of Technology, Cambridge, Mass. 1933

SWINTON, ROY S., Assistant Professor of Engineering Mechanics, University of Michigan, Ann Arbor, Mich. 1929

SYPHERD, W. O., Professor of English, University of Delaware, Newark, Del. 1914

TAFT, THEODORE H., Associate Professor of Heat Engineering, Massachusetts Institute of Technology, Cambridge, Mass..... 1926

TAIT, RALPH S., Associate Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1921

TALBOT, ARTHUR N., Professor of Municipal and Sanitary Engineering, Emeritus, University of Illinois, Urbana, Ill. (*President, 1910–11; Vice President, 1909–10; Treasurer, 1902–04; Member of Council, 1902–.*) 1893

TALLMAN, FRANK H., Instructor in Electrical Engineering, Cooper Union, New York, N. Y. 1930

TALLMAN, W. D., Professor of Mathematics, Montana State College, Bozeman, Mont. 1932

TALMAGE, S. B., Professor of Geology and Mineralogy, New Mexico School of Mines, Socorro, N. M. 1932

TANG, KWAN, Y., Assistant Professor of Electrical Engineering, The Ohio State University, Columbus, Ohio 1928

TAPPAN, FRANK G., Director, School of Electrical Engineering, University of Oklahoma, Norman, Okla. 1921

TARR, ALLAN L., Instructor in Chemical Engineering, Cooper Union, New York City 1932

TAYLOR, ALBERT L., Professor of Electrical Engineering, University of Utah, Salt Lake City, Utah 1924

TAYLOR, C. F., Professor of Automotive Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1932

TAYLOR, DEHOS C., Instructor in Applied Mechanics, Kansas State College, Manhattan, Kansas 1932

TAYLOR, E., Professor of Engineering Mechanics, Pomona College, Claremont, Calif. 1927

TAYLOR, FLOYD D., Canton, Pa. 1926

TAYLOR, HERBERT F., Alumni Secretary, Worcester Polytechnic Institute, Worcester, Mass. 1922

TAYLOR, T. U., Professor of Civil Engineering and Dean of Engineering Department, University of Texas, Austin, Texas. *Vice President, 1920–21; Member of Council, 1917–20.*) 1902

TAYLOR, W. C., Associate Professor of Civil Engineering, Union University, Schenectady, N. Y. 1913

TAYLOR, WM. E., Professor of Applied Mathematics and Head of Dept., College of Applied Science, Syracuse University, Syracuse, N. Y. 1913

TEARE, B. RICHARD, JR., Instructor in Electrical Engineering, Yale University, New Haven, Conn. 1933

TEBO, FRANK A., Instructor in Engineering Drawing, Pennsylvania State College, State College, Pa. 1930

TEICHMANN, F. K., Assistant Professor of Aeronautical Engineering, New York University, New York, N. Y. 1930

TERRELL, DANIEL V., Professor of Civil Engineering, University of Kentucky, Lexington, Ky. 1917

TERRILL, ARTHUR C., Instructor in Engineering, Fullerton District Junior College, Fullerton, Calif. 1933

TERWILLIGER, C. V. O., Professor and Head, Dept. of Electrical Engineering, Post Graduate School, U. S. Naval Academy, Annapolis, Md. 1924

THALER, J. A., Professor of Electrical Engineering, Montana State College, Boseman, Mont. (*Member of Council, 1906–09.*) 1901

THATCHER, CHARLES G., Associate Professor of Mechanical Engineering, Chairman, Division of Engineering, Swarthmore College, Swarthmore, Pa. 1929

THAYER, HORACE R., Assistant Professor of Mechanical Drawing, Pennsylvania State College, State College, Pa. 1930

THERKELSEN, ERIC, Professor of Mechanical Engineering, Montana State College, Bozeman, Mont. 1932

THOMAN, WILLIAM H., Instructor in Civil Engineering, University of Colorado, Boulder, Colo. 1929

THOMAS, ALBERT L., Professor of Engineering Drawing, Alabama Polytechnic Institute, Auburn, Ala. 1928

THOMAS, CHARLES F., Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1909

THOMAS, EARL C., Associate Professor of Civil Engineering, Stanford University, Stanford University, Calif. 1924

THOMAS, EVAN, Professor of Mechanics and Mathematics, Emeritus, University of Vermont, 40 Robinson Court, Burlington, Vt. 1908

THOMAS, FRANKLIN, Professor of Civil Engineering, Chairman, Engineering Division, California Institute of Technology, Pasadena, Calif. 1914

THOMAS, FREDERICK H., Assistant Professor of Mechanical Engineering, University of Illinois, Urbana, Ill. 1926

THOMAS, GEO. B., Personnel Director, Bell Telephone Laboratories, Inc., 463 West St., New York, N. Y. 1911

THOMAS, HAROLD A., Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1913

THOMAS, R. G., Professor Emeritus of Mathematics and Engineering, The Citadel, The Military College of S. C., 19 Charles Street, Charleston, S. C. (*Member of Council, 1898–01.*) ... 1894

THOMAS, R. P., 475 E. Northern Ave., Springfield, Ohio 1914

THOMPSON, JAMES E., Instructor in Mathematics, Pratt Institute, Brooklyn, N. Y. 1926

THOMPSON, JAMES S., Vice President, McGraw-Hill Book Co., 330 W. 42d St., New York, N. Y. 1911

THOMPSON, KARL O., Professor of English, Case School of Applied Science, Cleveland, O. 1919

THOMSON, FRANCIS A., President, Montana School of Mines, Butte, Mont. 1927

THORNBURG, M. L., Professor of Mechanical Engineering, University of Arizona, Tucson, Ariz. 1925

THORNTON, M. K., Professor of Chemistry and Chemical Engineering, Texas A. & M. College, College Station, Texas 1932

THOROGOOD, BRACKETT K., Educational Counsel, Franklin Union, 41 Berkeley Street, Boston, Mass. 1923

THUESEN, H. G., Associate Professor and Acting Head, Dept. of Industrial Engineering, Oklahoma A. and M. College, Stillwater, Okla. 1926

TILDEN, CHARLES J., Strathcona Professor of Engineering Mechanics, Yale University, New Haven, Conn. (*Member of Council, 1917–20.*) 1913

TILGHMAN, HARRISON, Councillor-at-Law, 15 Broad Street, New York City 1919

TIMBIE, WILLIAM H., Professor of Electrical Engineering and Industrial Practice, Massachusetts Institute of Technology, Cambridge, Mass. (*Member of Council, 1929–32.*) 1908

TIMBY, ELMER K., Instructor in Civil Engineering, Princeton University, Princeton, N. J. 1929

TIMOSHENKO, STEPHEN, Professor of Engineering Mechanics, University of Michigan, Ann Arbor, Mich. 1927

TINGLEY, FREEMAN T., Professor of Electrical Engineering, Clemson College, Clemson College, S. C. 1927

TOBIAS, ARTHUR L., Instructor in charge of Engineering Drawing Division, Pennsylvania State College, State College, Pa. 1929

TODD, M. E., Assistant Professor of Electric Power Engineering, University of Minnesota, Minneapolis, Minn. 1913

TODD, MARION W., Assistant Professor of Topographic Engineering, Purdue University, Lafayette, Ind. 1926

TOMLINSON, GEORGE E., Supervisor of Engineering Training, Tennessee Valley Authority, 1717 Laurel, Knoxville, Tenn. 1933

TOMPKINS, FREDERICK N., Associate Professor of Electrical Engineering, Brown University, Providence, R. I. 1922

TOOLE, CHARLES E., Teacher of Physical Elements of Engineering, Pratt Institute, Brooklyn, N. Y. 1931

TOPPING, ALANSON N., Professor of Electrical Engineering, Purdue University, Lafayette, Ind. 1931

TOWLE, NORMAN L., Professor in charge of Electrical Laboratories, Cooper Union, New York City 1925

TOWNSEND, ARTHUR L., Assistant Professor of Machine Design, Massachusetts Institute of Technology, Cambridge, Mass. 1933

TOWNSEND, ATWOOD H., Assistant Professor of Engineering English, New York University, New York City 1932

TOWNSEND, CLARENCE E., Professor of Engineering Drawing, Cornell University, Ithaca, N. Y. 1930

TOZER, ELIOT F., Professor of Drawing, Northeastern University, Boston, Mass. 1927

TRACY, GORDON F., Assistant Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1928

TRACY, JOHN C., Professor of Civil Engineering, Yale University, New Haven, Conn. (*Member of Council, 1912–5; 1920–3.*) .. 1907

TRACY, STEPHEN J., Instructor in Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1930

TREZISE, FREDERICK W., Professor of Engineering, Lawrence College, Appleton, Wis. 1931

TRIEST, RUDOLPH M., Manager, Educational Department, John Wiley and Sons, Inc., 440 Fourth Avenue, New York City ... 1924

TRINKLE, ROBERT J., Associate Professor of Electrical Engineering, Virginia Military Institute, Lexington, Va. 1924

TRINKS, W., Professor and Head of Department of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. .. 1917

TROFIMOV, LEO A., Development Engineer in charge of Research and Development, Electric Controller & Manufacturing Co., 2700 E. 79th St., Cleveland, Ohio 1931

TROSPER, RALPH S., Assistant Professor of Mechanical Engineering, University of Louisville, Louisville, Ky. 1930

TROTTER, RICHARD A., Associate Professor of Experimental Engineering, Georgia School of Technology, Atlanta, Ga. 1929

TROWBRIDGE, DOUGLAS S., Professor of Surveying, New York University, New York City 1924

TRUEBLOOD, RALPH B., Professor of Practical Mechanics, Purdue University, Lafayette, Ind. 1922

TRUEBLOOD, RICHARD O., Instructor in Mechanical and Electrical Engineering, University of Wyoming, Laramie, Wyo. 1931

TRYON, JAMES L., Director of Admissions, Lecturer in Vocational Education, Massachusetts Institute of Technology, Cambridge, Mass. 1927

TUBINI, BERNARD A., Professor of Electrical Engineering, Robert College, Istambul, Turkey 1930

TUCKER, CARLTON E., Associate Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

TUCKER, LEROY, City Engineer, 309 North Coler Ave., Urbana, Ill. 1927

TUDBURY, CHESTER W., Head, Department of Mathematics, Wentworth Institute, Boston, Mass. 1921

TURLEY, O. J., Consulting Geological Engineer, Hotel Knickerbocker, Los Angeles, Calif. 1912

TURNBULL, JOHN M., Professor of Mining, Acting Dean, University of British Columbia, Vancouver, B. C. 1926

TURNBULL, W. D., Junior Dean, College of Engineering, The Ohio State University, Columbus, O. 1917

TURNEAURE, F. E., Dean of the College of Engineering, University of Wisconsin, Madison, Wis. *(President, 1908–9; Member of Council since 1903; Member, Board of Investigation and Coordination, 1925–.)* 1894

TURNER, C. A. P., Engineer, 300 Builders Exchange, Minneapolis, Minn. 1913

TURNER, D. L., Daniel L. Turner Co., Contractors, 70 West 55th Street, New York, N. Y. 1898

TURNER, HERBERT M., Associate Professor of Electrical Engineering, Yale University, New Haven, Conn. 1929

TURNER, W. P., Professor of Practical Mechanics, Purdue University, Lafayette, Ind. 1900

TURRELL, ARCHIE M., Engineering Counselor, Pasadena Junior College, Pasadena, Calif. 1933

TUTHILL, JOHN K., Associate Professor of Railway Electrical Engineering, University of Illinois, Urbana, Ill. 1922

TUVE, GEORGE L., Associate Professor of Mechanical Engineering, Case School of Applied Science, Cleveland, Ohio 1925

TWOGOOD, A. J., Instructor in Engineering, Riverside Junior College, Riverside, Calif. 1933

TYKOCINER, JOSEPH T., Research Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1929

TYLER, H. W., General Secretary, American Association of University Professors; Consultant in Science, Library of Congress, Washington, D. C. (*Vice President, 1897–8; 1926–7; Member of Council 1910–16.*) 1894

TYLER, RICHARD G., Dean, College of Engineering, Professor of Sanitary Engineering, University of Washington, Seattle, Wash. 1929

TYMSTRA, SYBREN R., Instructor in General Engineering, University of Washington, Seattle, Wash. 1930

TYRRELL, HENRY G., Engineer and Author, 5 Guilford Avenue, Catonsville, Md. 1925

UHRIG, L. VERNON, Instructor in Civil Engineering, The Rice Institute, Houston, Texas 1930

ULLMANN, H. M., Professor and Head, Dept. of Chemistry and Chemical Engineering, Lehigh University, Bethlehem, Pa. .. 1926

UNDERHILL, JAMES, Associate Professor of Mining, Colorado School of Mines, Golden, Colo. 1921

UNDERWOOD, P. H., Professor of Topographic and Geodetic Engineering, Cornell University, Ithaca, N. Y. 1922

UPP, CLARENCE R., Assistant Professor of Mechanical Engineering, University of Akron, Akron, Ohio 1928

UPSON, WALTER L., Professor of Electrical Engineering, Washington University, St. Louis, Mo. 1910

VACHA, FRED, Consulting Engineer, 70 Bigelow Street, Quincy, Mass. 1932

VALLANCE, ALEX, Associate Professor of Mechanical Engineering, University of Texas, Austin, Texas 1927

VAN BUSKIRK, H. C., Professor of Mathematics and Registrar, California Institute of Technology, Pasadena, Calif. 1911

VAN DEN BROEK, J. A., Professor of Engineering Mechanics, University of Michigan, Ann Arbor, Mich. 1924

VAN DEN MEERSCHE, ANDRÉ J., Instructor in Electrical Engineering, University of Ghent, Ghent, Belgium, 22 St. Pieters Aalststraat (10 Hillhouse Ave., New Haven, Conn.) 1930

VAN DYKE, JAMES R., Instructor in Mechanical Engineering, North Dakota Agricultural College, Fargo, N. D. 1929
VAN GAASBEEK, RICHARD M., Head, Department of Woodworking, Pratt Institute, Brooklyn, N. Y. 1926
VAN HAGAN, L. F., Professor of Railway Engineering, University of Wisconsin, Madison, Wis. 1912
VAN HOUTEN, ROBERT W., Instructor in Civil Engineering, Newark College of Engineering, Newark, N. J. 1933
VAN LEER, BLAKE R., Dean, College of Engineering, University of Florida, Gainesville, Fla. (*Member of Council, 1933–36.*)... 1923
VAN ORNUM, J. L., Professor of Civil Engineering, Washington University, St. Louis, Mo. (*Member of Council, 1902–5.*) ... 1895
VAN WERT, LELAND R., Lecturer in Metallurgy, Harvard University, Cambridge, Mass. 1933
VAUGHAN, JOSEPH L., Instructor in English, University of Virginia, University, Va. 1930
VAUGHAN, L. L., Professor of Mechanical Engineering, North Carolina State College of Agriculture and Engineering, State College Station, Raleigh, N. C. 1912
VAWTER, JAMISON, Associate Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1926
VEAL, C. B., Research Manager, Society of Automotive Engineers, 29 West 39 Street, New York City 1910
VEAZEY, WILLIAM R., Professor of Chemical Engineering, Case School of Applied Science, Cleveland, O. 1922
VEDDER, JOHN N., Associate Professor of Thermodynamics, Union College, Schenectady, N. Y. 1910
VELLINGER, ANTHONY J., Instructor in Practical Mechanics, Purdue University, Lafayette, Ind. 1933
VETTER, HARRY F., Instructor in Electrical Engineering 1932
VICKER, JOHN J., Instructor in Mechanical Engineering, University of New Hampshire, Durham, N. H. 1933
VILBRANDT, FRANK C., Professor of Chemical Engineering, Iowa State College, Ames, Iowa 1931
VON ENDE, CARL L., Professor and Head, Department of Chemistry, University of Idaho, Moscow, Idaho 1929
VOPAT, WM. A., Instructor in Mechanical Engineering, Cooper Union, New York City 1932
VOSE, F. H., Professor in charge, Dept. of Mechanical Engineering, Case School of Applied Science, Cleveland, O. 1907
VOSS, WALTER C., Professor of Building Construction, Massachusetts Institute of Technology, Cambridge, Mass. 1932
WABNITZ, W. S., Assistant Professor of English, University of Cincinnati, Cincinnati, Ohio 1932
WADDELL, J. A. L., Consulting Engineer, 142 Maiden Lane, New York, N. Y. (*Member of Council, 1911–4.*) 1893

WADE, FRANK H., Assistant Professor of Mechanics, Lewis Institute, Chicago, Ill. 1927
WADSWORTH, F. L. O., Consulting and Advisory Engineer, Pittsburgh, Pa. 1911
WADSWORTH, J. E., Division Engineer, American Bridge Co., 22 Morsemere Place, Yonkers, N. Y. 1895
WAGNER, CARL L. H., Instructor in Mechanical Engineering, Purdue University, Lafayette, Ind. 1932
WAGNER, H. A., Consulting Mining and Metallurgical Engineer, 8 South Michigan Avenue, Chicago, Ill. 1926
WAIT, JOHN C., Counsellor-at-law, Woolworth Bldg., 11 Park Place, New York, N. Y. 1907
WALES, ROYAL L., Professor of Mechanical Engineering and Dean of Engineering, Rhode Island State College, Kingston, R. I. .. 1914
WALKER, AMASA, Manager of Educational Dept., Longmans, Green & Co., 55 Fifth Ave., New York, N. Y. 1914
WALKER, CHAS. L., Professor of Sanitary Engineering, College of Engineering, Cornell University, Ithaca, N. Y. 1910
WALKER, ELTON D., Professor of Hydraulic and Sanitary Engineering, Head, Department Civil Engineering, the Pennsylvania State College, State College, Pa. 1895
WALKER, E. S., Instructor in Descriptive Geometry and Mechanical Drawing, University of Florida, Gainesville, Fla. 1910
WALKER, HARRY B., Professor of Agricultural Engineering, University of California, University Farm, Davis, Calif. (*Member of Council, 1933–36.*) 1921
WALKER, HARRY N., Assistant Professor of Electrical Engineering, New York University, New York City 1931
WALKER, LEONARD D., Instructor in General Engineering Drawing, University of Illinois, Urbana, Ill. 1928
WALKLING, WALTER, Instructor in Electrical Engineering, South Dakota School of Mines, Rapid City, S. D. 1931
WALLACE, LAWRENCE W., Vice-President in Charge of Washington Office, U. S. Lee Engineering Corp., Woodward Building, Washington, D. C. 1924
WALLS, JOHN A., Vice President and Chairman, Pennsylvania Water & Power Co., 1611 Lexington Bldg., Baltimore, Md. .. 1932
WALSH, FRANK W., Assistant Professor and Head, Department of Mechanical Drawing, State Teachers College, Oshkosh, Wis. .. 1928
WALTER, OTTO W., Assistant Professor of Electrical Engineering, College of the City of New York, New York, N. Y. 1926
WALTERS, JACK E., Director of Personnel, Schools of Engineering, Purdue University, Lafayette, Ind. 1926
WALTERS, RALPH H., Instructor in Engineering, Los Angeles Junior College, Los Angeles, Calif. 1933
WALTHER, JOHN T., Professor of Electrical Engineering, University of Akron, Akron, Ohio 1924

WALTON, GRAHAM, Instructor in Civil Engineering, South Dakota School of Mines, Rapid City, S. D. 1931
WARD, GERALD C., College Representative, McGraw-Hill Book Co., 330 W. 42d St., New York, N. Y. 1929
WARD, NAIRN F., Assistant Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1932
WARD, SAMUEL, Professor and Head, Dept. of Civil Engineering, Fenn College, 2648 Canterbury Road, Cleveland Heights, O. 1917
WARNER, FRANK M., Associate Professor of Engineering Drawing, University of Washington, Seattle, Wash. 1927
WARNER, HARRY O., Professor of Electrical Engineering, University of Detroit, Detroit, Mich. 1926
WARNER, ROBERT K., Assistant Professor of Mining Engineering, Yale University, New Haven, Conn. 1924
WARNER, ROBERT W., Professor of Electrical Engineering, University of Kansas, Lawrence, Kansas 1930
WARNER, RUSSELL G., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1924
WASHINGTON, LAWRENCE, Instructor in Mechanical Engineering, Stanford University, Stanford University, Calif. 1928
WATERMAN, EARLE L., Professor of Sanitary Engineering, University of Iowa, Iowa City, Iowa 1923
WATERMAN, I. F., Instructor in Civil Engineering, Oregon Agricultural College, Corvallis, Ore. 1916
WATERS, EVERETT O., Associate Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1914
WATERS, JAMES S., Instructor in Electrical Engineering, Rice Institute, Houston, Texas 1931
WATSON, ARTHUR E., Associate Professor of Electrical Engineering, Brown University, Providence, R. I. 1924
WATSON, CARL G., Professor of Physics, South Dakota School of Mines, Rapid City, S. D. 1925
WATSON, HARRY D., Associate Professor of Mechanical Engineering, University of Maine, Orono, Me. 1926
WATSON, JAMES W., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1910
WATTS, EARLE F., Assistant Professor of Engineering Drawing, Massachusetts Institute of Technology, Cambridge, Mass..... 1923
WATTS, OLIVER P., Associate Professor of Chemical Engineering, University of Wisconsin, Madison, Wis. 1925
WATWOOD, VERNON B., Assistant Professor of Civil Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1929
WEAVER, FREDERIC N., Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1924
WEAVER, JAMES H., Professor of Mathematics, The Ohio State University, Columbus, Ohio 1923

WEAVER, LEON H. A., Publicity Manager, The Superheater Co., 60 E. 42d Street, N. Y. C. 1914
WEAVER, R. R., Educational Director, Western Electric Company, 195 Broadway, New York, N. Y. 1929
WEBBER, W. PAUL, Professor of Mathematics, Louisiana State University, Baton Rouge, La. 1931
WEED, JOHN M., Assistant to Director, Engineering Experiment Station, The Ohio State University, Columbus, Ohio 1923
WEGNER, WALTER W. 1927
WEIGEL, PAUL, Professor of Architecture, Kansas State College, Manhattan, Kans. 1923
WEIL, JOSEPH, Professor and Head, Dept. of Electrical Engineering, University of Florida, Gainesville, Fla. 1923
WEILAND, W. F., Associate Professor of Mechanical Engineering, University of Nebraska, Lincoln, Nebr. 1921
WEINBACH, M. P., Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915
WEISHAMPEL, JOHN A., Instructor in Physics, Newark College of Engineering, Newark, N. J. 1932
WEISIGER, KENDALL, Assistant to President, Southern Bell Telephone & Telegraph Company, 206 East 17th Street, Atlanta, Ga. 1927
WEISS, HERBERT A., Assistant Professor of Mechanical Engineering, Clarkson College of Technology, Potsdam, N. Y. 1930
WELCH, FREDERIC W., Assistant Professor of Civil Engineering, State College of Washington, Pullman, Wash. 1921
WELLS, EDGAR H., President; Professor of Geology and Mineralogy, New Mexico School of Mines, Socorro, N. M. 1923
WELLS, EVERETT D., Assistant Professor of Mathematics, University of Pittsburgh, Erie, Pa. 1926
WELLS, MELVILLE B., Professor and Head, Dept. of Civil Engineering, Armour Institute of Technology, Chicago, Ill. 1925
WENDLING, ANDRÉ V., Professor of Physics, Ecole Polytechnique, Montreal, Canada 1930
WENDT, KURT F., Instructor in Mechanics, University of Wisconsin, Madison, Wis. 1927
WENDT, ROBERT E., Instructor in Foundry, Purdue University, Lafayette, Ind. 1922
WENDT, WYLIE B., Professor of Civil Engineering, Speed Scientific School, University of Louisville, Louisville, Ky. 1908
WERBER, FREDERICK C., Instructor in Mechanical Engineering, University of Arkansas, Fayetteville, Ark. 1933
WEST, G. ALVIN, Machine Designer, Standard-Trump Brothers Machine Company, Wilmington, Del.; Port Deposit, Md. 1923
WEST, RAY B., Professor of Civil Engineering, Dean, School of Engineering, Utah Agricultural College, Logan, Utah 1924

WESTON, EDW., President, The Weston Electrical Instrument Co., Waverly Park, Newark, N. J. 1911

WHARTON, JAMES R., Associate Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1919

WHEATLEY, EDWARD A., Registrar-Secretary-Treasurer, Association of Professional Engineers, 930 Birks' Building, Vancouver, B. C. 1927

WHEELER, FRED B., Assistant Professor of Shopwork, North Carolina State College, Raleigh, N. C. 1933

WHEELER, NATHANIEL E., Professor of Physics, Colby College, Waterville, Me. 1921

WHELAN, DANIEL E., JR., Professor of Civil Engineering, Loyola University, Los Angeles, Calif. 1931

WHENMAN, JOHN H., Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1930

WHIPPLE, CLYDE C., Associate Professor of Electrical Engineering, Brooklyn Polytechnic Institute, Brooklyn, N. Y. 1924

WHIPPLE, RICHARD R., Assistant Professor of Electrical Engineering, State University of Iowa, Iowa City, Iowa 1931

WHITE, ALFRED H., Professor of Chemical Engineering, University of Michigan, Ann Arbor, Mich. 1920

WHITE, BENNETT S., Assistant Professor of Machine Design and Drawing, West Virginia University, Morgantown, W. Va. 1926

WHITE, C. L., Professor of Engineering, College of the Pacific, Stockton, Calif. 1923

WHITE, HALL B., Agricultural Engineer, University of Minnesota, St. Paul, Minn. 1925

WHITE, JOHN, Vice President, Professor of Chemical Engineering, Rose Polytechnic Institute, Terre Haute, Ind. 1929

WHITE, LEON V., Associate Professor of Civil Engineering, Kansas State College, Manhattan, Kans. 1923

WHITE, ROY A., Head, Engineering Dept., The Grand Rapids Junior College, Grand Rapids, Mich. 1925

WHITE, WILLIAM C., Assistant Professor of Education, Northeastern University, Boston, Mass. 1926

WHITED, E. WILLIS, 5639 Wilkins Ave., Pittsburgh, Pa. 1923

WHITEHEAD, L. W., Associate Professor of Civil Engineering, The Pennsylvania State College, State College, Pa. 1918

WHITENER, J. SUMMIE, Associate Professor of Sanitary Engineering, North Carolina State College, Raleigh, N. C. 1932

WHITTEMORE, JEANNE S., Professor of English, University of Porto Rico, Mayaguez, P. R. 1923

WICKENDEN, WM. E., President, Case School of Applied Science, Cleveland, Ohio. (*President, 1933–34; Director of Investigations, 1923–29; Member of Council, 1924–7, 1933–.*) 1912

WIDDOP, ROBERT, Assistant Professor of Engineering Drawing, Acting Head of Dept., Newark College of Engineering, Newark, N. J. 1932

WIEPKING, C. A., Testing Engineer, 1806 No. 52d Street, City of Milwaukee, Wis. 1925

WILBUR, RALPH S., Associate Professor of Mechanical Engineering, Duke University, Durham, N. C. 1933

WILBUR, WALTER E., Associate Professor of Mathematics, University of New Hampshire, Durham, N. H. 1928

WILCOX, ALFRED C., Instructor in Drafting, Pasadena Junior College, Pasadena, Calif. 1931

WILCOX, ELGIN R., Associate Professor and Head, Dept. of General Engineering, University of Washington, Seattle, Wash. (*Member of Council, 1913–4.*) 1925

WILCOX, GUY M., Professor of Physics, Armour Institute of Technology, Chicago, Ill. 1926

WILDES, KARL L., Assistant Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. .. 1926

WILEY, RALPH B., Professor of Sanitary Engineering, Purdue University, Lafayette, Ind. 1920

WILEY, W. O., Publisher of Scientific Books, President, John Wiley & Sons, Inc., 440 Fourth Ave., New York, N. Y. (*Treasurer, 1907–.*) 1904

WILLARD, ARTHUR C., Acting Dean, College of Engineering, Acting Director, Engineering Experiment Station, Head, Department, Mechanical Engineering, University of Illinois, Urbant, Ill. 1922

WILLEY, EARL C., Instructor in Engineering Drawing, Oregon State Agricultural College, Corvallis, Ore. 1929

WILLIAMS, CLEMENT C., Dean, College of Engineering, The State University of Iowa, Iowa City, Iowa. (*Member of Council, 1920–3; Vice President, 1928–9.*) 1909

WILLIAMS, FRANK W., Professor of Mathematics and Drawing, University of Dayton, Dayton, Ohio 1931

WILLIAMS, J. P. J., Instructor in Civil Engineering, Cooper Union, New York City 1932

WILLIAMS, OWEN E., Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1910

WILLIAMS, S. N., Professor Emeritus of Civil and Sanitary Engineering, Cornell College, 5448 West Ohio Avenue, Chicago, Ill. 1893

WILLIAMS, W. S., Professor of Topographical Engineering, University of Missouri, Columbia, Mo. 1913

WILLIS, BEN S., Assistant Professor of Electrical Engineering, Iowa State College, Ames, Iowa 1929

WILLIS, CLODIUS H., Associate Professor of Electrical Engineering, Princeton University, Princeton, N. J. (*Member of Council, 1933–36.*) 1926

WILLIS, PHILIP A., Associate Engineering Examiner, U. S. Civil Service Commission, Washington, D. C. 1929

WILLISTON, ARTHUR L., Assistant to Director, American Council on Education, Washington, D. C., 986 High Street, Dedham, Mass. (*Vice President, 1909–10; Secretary, 1907–9; Member of Council, 1900–3; 1905–8.*) 1897

WILLMARTH, ELMER H., Associate Professor of General Engineering, Iowa State College, Ames, Iowa 1922

WILLSON, F. G., Head, Department of Applied Electricity, Wentworth Institute, Boston, Mass. 1912

WILMORE, JOHN J., Dean, School of Engineering, and Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. (*Member of Council, 1928–31*) 1894

WILSEY, EDWARD F., Professor of Physics, Robert College, Istambul, Turkey 1930

WILSON, BENJAMIN J., Development Engineer, Leeds and Northrup Co., Philadelphia, Pa. 1925

WILSON, BERTON N., Professor of Drawing and Architecture, University of Arkansas, Fayetteville, Ark. 1933

WILSON, DAVID M., Associate Professor of Civil Engineering, University of Southern California, Los Angeles, Calif. 1929

WILSON, EARL R., Instructor in Engineering Drawing, University of Akron, Akron, Ohio 1930

WILSON, FRANCIS W., President, Wilson Engineering Corp., College House Office, Harvard Square, Cambridge, Mass..... 1931

WILSON, FREDERICK C., Dean of Engineering, Professor of Civil Engineering, Clarkson College of Technology, Potsdam, N. Y. 1930

WILSON, GEORGE S., Professor of Mechanical Engineering, University of Washington, Seattle, Wash. 1912

WILSON, GROVER C., Assistant Professor of Steam and Gas Engineering, University of Wisconsin, Madison, Wis. 1929

WILSON, LEROY A., Associate Professor of Steam and Gas Engineering, University of Wisconsin, Madison, Wis. 1923

WILSON, ROBERT N., Professor of Chemistry, Duke University, Durham, N. C. 1927

WILSON, R. S. L., Dean, Faculty of Applied Science, Professor of Civil and Municipal Engineering, University of Alberta, Edmonton, Canada 1929

WILSON, WILBUR M., Research Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1914

WING, FRANCIS H., Deputy Superintendent of Schools in charge of Vocational Education, Buffalo, N. Y. 1919

WINGREN, ROY M., Instructor in Mechanical Engineering, Texas A. and M. College, College Station, Texas 1928

WINKLER, EDWIN W., Instructor in Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1930

WINSLOW, A. E., Head of Civil Engineering Dept., Norwich University, Northfield, Vt. 1914

WINSTON, STANTON E., Associate Professor of Kinematics, Armour Institute of Technology, Chicago, Ill. 1928

WISCHMEYER, CARL, Professor of Mechanical Engineering, Rose Polytechnic Institute, Terre Haute, Ind. 1929

WITHAM, R. L., Head, Electrical Engineering Dept., Sperry Gyroscope Co., Manhattan Bridge Plaza, Brooklyn, N. Y. 1914

WITHEY, M. O., Professor of Mechanics, University of Wisconsin, Madison, Wis. 1910

WITHROW, JAMES R., Professor and Head, Dept. of Chemical Engineering, Ohio State University, Columbus, O. 1907

WITMER, FRANCIS P., Director of Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1926

WITMER, LUTHER F., Associate Professor of Metallurgy, Lafayette College, Easton, Pa. 1931

WOHLENBERG, W. J., Sterling Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1917

WOLFARD, N. ELLSWORTH, Associate Professor of Civil Engineering, University of Oklahoma, Norman, Okla. 1921

WOOD, BEN D., Associate Professor and Director, Bureau of Collegiate Educational Research, Columbia University, New York, N. Y. 1931

WOOD, E. H., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1910

WOOD, FREDERICK M., Assistant Professor of Civil Engineering, McGill University, Montreal, Canada 1930

WOOD, HORACE W., JR., Associate Professor of Mechanics, University of Missouri, Columbia, Mo. 1931

WOOD, K. D., Assistant Professor of Mechanics, Cornell University, Ithaca, N. Y. 1923

WOODS, BALDWIN M., Professor of Mechanical Engineering and Chairman of Dept., University of California, Berkeley, Calif. 1930

WOODWARD, SHERMAN M., Professor of Mechanics and Hydraulics, State University of Iowa, Iowa City, Ia. (*Member of Council, 1913–6; 1926–0.*) 1910

WOOLEY, JOHN C., Professor of Agricultural Engineering, University of Missouri, Columbia, Mo. 1928

WOOSTER, L. F., Professor of Applied Electricity, Oregon Agricultural College, Corvallis, Ore. 1912

WORK, LINCOLN T., Assistant Professor of Chemical Engineering, Columbia University, New York City 1923

WORK, WILLIAM R., Professor and Head, Department of Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1921

WRIGHT, DONALD H., Instructor in Electrical Design, Pratt Institute, Brooklyn, N. Y. 1929
WRIGHT, EDWIN H., Professor of Fine Arts, Tufts College, Tufts College, Mass. 1921
WRIGHT, HARRY M., Instructor in Practical Mechanics, Junior College, Lyons Township High School, 22 N. Meredian, La-Grange, Ill. 1929
WRIGHT, M. BIRNEY, Instructor in Mechanical Engineering, Case School of Applied Science, Cleveland, Ohio 1929
WUNDERLEE, JAMES L., Instructor in Practical Mechanics, Purdue University, Lafayette, Ind. 1922
YATES, J. A., Head, Dept. of Chemical and Physical Sciences, Kansas State Teachers College, Pittsburg, Kans. 1924
YENNI, WM. H., Instructor in Physics, Lewis Institute, Chicago, Ill. 1932
YOUNG, C. HIGBIE, Instructor in Machine Design, Cooper Union, New York City 1933
YOUNG, C. M., Professor of Mining Engineering, University of Kansas, Lawrence, Kans. 1907
YOUNG, C. R., Professor of Civil Engineering, University of Toronto, Toronto, Ont. 1914
YOUNG, EVERETT G., Research Professor of Railway Mechanical Engineering, University of Illinois, Urbana, Ill. 1922
YOUNG, GILBERT A., Head, School of Mechanical Engineering, Director, M. E. Laboratories, Purdue University, Lafayette, Ind. 1907
YOUNG, L. H., Assistant Professor of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 1928
YOUNGER, JOHN, Professor of Industrial Engineering, The Ohio State University, Columbus, Ohio 1925
ZAROBSKY, IVAN F., Associate Professor of Mechanical Engineering, University of the City of Toledo, Toledo, Ohio 1928
DE ZAFRA, CARLOS, Professor of Mechanical Engineering, New York University, New York City 1924
ZELLER, JOSEPH W., Head, Department of Mechanical Engineering, Northeastern University, Boston, Mass. 1926
ZELNER, OTTO S., Associate Professor of Civil Engineering, University of Minnesota, Minneapolis, Minn. 1930
ZERBAN, A. H., Instructor in Mechanical Engineering, The Ohio State University, Columbus, Ohio 1932
ZIMMER, ALBERT R., Associate Professor of Electrical Engineering, University of Toronto, Toronto, Ont., Canada 1923
ZINK, FRANKLIN J., Associate Professor of Agricultural Engineering, Kansas State College, Manhattan, Kans. 1931
ZSCHOKKE, ARTHUR J., 2346 Sunset Drive, Ventura, Calif. 1932
ZUCROW, MAURICE J., Chicago, Ill 1928
ZUFFANTI, SAVERIO, Instructor in Chemical Engineering, Northeastern University, Boston, Mass. 1931

Total Individual Members January 27, 1934 2271

ADDRESSES UNKNOWN.

If you know the present address of any of the following members, please send it to the secretary, F. L. Bishop, University of Pittsburgh, Pittsburgh, Pa.:

Allen, L. N.
Andrews, Ed.
Brown, Wilson F.
Cheatham, J. C.
Daniel, C. M.
Frankland, Edwin
Hackley, R. A.
Hammond, R. J.
Hewitt, C. E.
Holmes, W. M.
Howitt, Nathan
Kile, R. F.
MacDonald, John
Owens, H. D.
Patten, W. E.
Rice, A. C.
Rood, J. T.
Scheve, C. J.
Vetter, H. F.
Wegner, W. W.
Zucrow, M. J.

GEOGRAPHICAL DISTRIBUTION OF MEMBERSHIP.

ALABAMA

Auburn.—Callan, John A. C., Poly Inst.
Camp, E. W., Poly. Inst.
Dixon, S., Poly. Inst.
Elizondo, Y. A., Poly. Inst.
Fullan, M. T., Poly. Inst.
Hixon, C. R., Poly. Inst.
McKinnon, J. C., Poly. Inst.
Sahag, L. M., Poly. Inst.
Thomas, A. L., Poly. Inst.
Watwood, V. B., Poly. Inst.
Wilmore, J. J., Poly. Inst.
Tuscaloosa.—Davis, Geo. J., Jr., Pinehurst.
Du Plantier, D. A., Univ. of Ala.
Gallalee, J. M., Univ. of Ala.

ARIZONA

Tucson.—Borquist, E. S., Univ. of Ariz.
Butler, G. M., Univ. of Ariz.
Chapman, T. G., Univ. of Ariz.
Cunningham, J. B., Univ. of Ariz.
Clark, J. C., Univ. of Ariz.
Kelton, F. C., Univ. of Ariz.
Leonard, Heman Burr, Univ. of Ariz.
Mathewson, E. P., Univ. of Ariz.
Park, J. C., Univ. of Ariz.
Polk, O. H., Univ. of Ariz.
Thornberg, M. L., Univ. of Ariz.

ARKANSAS

Fayetteville.—Brown, A. S., Univ. of Ark.
Gladson, W. N., Univ. of Ark.
Harlan, J. C., Univ. of Ark.
Hosford, H. M., Univ. of Ark.
Paddock, R. G., Univ. of Ark.
Price, L. C., Univ. of Ark.
Spencer, W. R., Univ. of Ark.
Stelzner, W. B., Univ. of Ark.
Stocker, G. P., Univ. of Ark.
Werber, F. C., Univ. of Ark.
Wilson, B. N., Univ. of Ark.

CALIFORNIA

Azusa.—Batchelder, D. E.
Bakersfield.—Rich, K. W., Junior College.
Berkeley.—Boelter, L. M. K., Univ. of Calif.
Cherry, F. H., Univ. of Calif.
Davis, H. E., Univ. of Calif.
Davis, R. E., Univ. of Calif.
Derleth, Chas., Jr., Univ. of Calif.
Fuller, L. F., Univ. of Calif.
Garland, C. F., Univ. of Calif.
Hersam, E. A., Univ. of Calif.
Hildebrand, W. A., Univ. of Calif.
Horack, C. W., Univ. of Calif.
Howe, E. D., Univ. of Calif.
Langille, H. B., Univ. of Calif.
Le Conte, J. N., Univ. of Calif.
Lee, E. A., Univ. of Calif.
Minarik, R. G., Univ. of Calif.
Raber, B. F., Univ. of Calif.
Robertson, B. L., Univ. of Calif.
Ward, N. F., Univ. of Calif.
Woods, B. M., Univ. of Calif.
Brawley.—Hartshorn, W. W., Jr. College.
Claremont.—Taylor, Ed., Pomona College.
Colton.—Lindsay, F. B., Box 224.
Davis.—Bainer, Roy, Univ. of Calif.
Long, J. D., Univ. of Calif.
Walker, H. B., Univ. Farm.
Fresno.—Robb, R. E.
Fullerton.—Terrill, A. C., Jr. College.
Kentfield.—Cherry, C. E., Marin Jr. College.
Los Angeles.—Biegler, P. S., Univ. of So. Calif.
Dodge, J. F., Univ. So. Calif.
Dunstan, G. H., Univ. So. Calif.
Eyre, T. T., Univ. of So. Calif.
Fox, R. M., Univ. So. Calif.
George, V. C., Junior College.
Guse, C. E., Junior College.
Hazen, J. W., Junior College.
Hedrick, E. R., Univ. of Calif.
Hunt, G. H., Univ. of Calif.
Martin, B. W., Junior College.
Pheley, D. B., Junior College.
Walters, R. H., Junior College.
Whelan, D. E., Loyola Univ.
Wilson, D. M., Univ. of So. Calif.
Modesto.—Rose, F. O., Junior College.
Monrovia.—Bissell, G. W.
Oroville.—Foxwell, W. H.
Palo Alto.—Hoskins, L. M., 1240 Waverley St.
Pasadena.—Brahtz, J. H., Inst. of Tech.
Childs, W. P., Herberts Mach. Co.
Gehrig, A. G., Junior College.
Henck, G. D., City Schools.
Hinrichs, F. W., Jr., Inst. Tech.
Holmes, W. M.
Sorensen, R. W., Inst. of Tech.
Thomas, Franklin, Inst. of Tech.
Turrell, A. M., Junior College.
Van Buskirk, H. C., Inst. of Tech.
Wilcox, A. C., Junior College.
Riverside.—Bliss, H. H., Junior College.
Twogood, A. J., Junior College.
San Francisco.—Merrill, G. A., School Mech. Arts.
Miller, G. B., Cogswell Poly.
Santa Clara.—Sullivan, Geo. L., Univ. of Santa Clara.
Santa Rosa.—Bailey, F., Jr. College.
Stanford University.—Domonoske, A. B., Stanford Univ.
Durand, W. F., Stanford Univ.
Fish, J. C. L., Stanford Univ.
Grant, E. L., Stanford Univ.

Green, B. M., Stanford Univ.
Hoover, T. J., Stanford Univ.
Marx, C. D., Stanford Univ.
Moser, Chas., Stanford Univ.
Ryan, H. J., Stanford Univ.
Thomas, E. C., Stanford Univ.
Washington, L., Stanford Univ.
Wegner, W. W., Stanford Univ.
Stockton.—White, C. L., College of Pacific.
Taft.—Robb, J. M., Junior College.
Rose, F. W., Junior College.
Temple City.—Ives, H. C.
Valleja.—Garcelon, W. R.
Ventura.—Zschokke, A. J.

CANADA

Alberta.—Morrison, I. F., Univ. of Alberta.
Sheldon, E. W., Univ. of Alberta.
Wilson, R. S. L., Univ. of Alberta.
Halifax.—Sexton, F. H., Tech. Coll.
Montreal.—Boyer, A., Ecole Poly.
Circé, A., Ecole Poly.
French, R. D., McGill Univ.
Frigon, A., Ecole Poly.
Jamieson, R. E., McGill Univ.
Johnson, F. M. G., McGill Univ.
Lafreniere, T. J., Ecole Poly.
Landreau, G. L., Ecole Poly.
Lefebvre, Olivier O., New Court House.
McKergow, C. M., McGill Univ.
Phillips, J. B., McGill Univ.
Wendling, A. V., Ecole Poly.
Wood, F. M., McGill Univ.
Saskatoon.—Fraser, I. M., Univ of Saskatchewan.
Mackenzie, C. J., Univ. of Saskatchewan.
Toronto.—Drury, C. W., 521 Bloor Bldg.
Dyer, F. C., Univ. of Toronto.
Haultain, H. E. T., Univ. of Toronto.
Mitchell, C. H., Univ. of Toronto.
Price, H. W., Univ. of Toronto.
Rosebrugh, T. R., Univ. of Toronto.
Smythe, R. E., 15 Queen's Park.
Stewart, L. B., Univ. of Toronto.
Young, C. R., Univ. of Toronto.
Zimmer, A. R., Univ. of Toronto.
Vancouver.—Brock, R. W., Univ. of B. C.
Duckering, W. E., Univ. of B. C.
Matheson, E. G., Univ. of B. C.
Turnbull, J. W., Univ. of B. C.
Wheatley, E. A., 930 Birks Bldg.
Westmount.—Haskell, L. S. J., 502 Grosvenor Ave.

CANAL ZONE

Balboa Heights.—Meadowcroft, A. J.

COLORADO

Boulder.—Allen, F. G., Univ. of Colo.
Bauer, F. S., Univ. of Colo.
Bergman, E. O., Univ. of Colo.
Birk, Wm. O., Univ. of Colo.
Brubaker, W. F., Univ. of Colo.
Brunton, L. J., Univ. of Colo.
Cass, R. T., Univ of Colo.
Coover, M. S., Univ. of Colo.
Downing, R. L., Univ. of Colo.
DuVall, W. C., Univ. of Colo.
Eckel, C. L., Univ. of Colo.
Evans, H. S., Univ. of Colo.
Grismer, F. A., Univ. of Colo.
Hunter, J. A., Univ. of Colo.
Hutchinson, C. A., Univ. of Colo.
Lester, O. C., Univ. of Colo.
McMaster, A. S., Univ. of Colo.
Nelson, W. K., Univ. of Colo.
Sutherland, L. B., Univ. of Colo.
Thoman, W. H., Univ. of Colo.
Colorado Springs.—Anderson, H. J.
Denver.—Carpenter, L. G., 702 1st Nat. Bank Bldg.
Guiteras, J. R., 1660 Fillmore St.
Morse, J. L., 123 Ogden St.
Nyswander, R. E., 2151 S. Josephine St.
Fort Collins.—Crain, L. D., Agri. College.
House, E. B., Agri. College.
Jordan, H. G., Agric. College.
Lory, C. A., Agri. College.
MacDonald, S. L., Agri. College.
Poole, F. L., Agri. College.
Golden.—Adams, A. S., School of Mines.
Baxter, R. A., School of Mines.
Coolbaugh, M. F., School of Mines.
Fitterer, J. C., School of Mines.
Little, A. P., School of Mines.
Morgan, J. R., School of Mines.
Morton, R. W., School of Mines.
Palmer, I. A., School of Mines.
Underhill, James, School of Mines.

CONNECTICUT

Bridgeport.—Harris, H. E., 299 Thorne St.
Hartford.—Rogers, C. E., Trinity College.
Madison.—Reeves, E. H.
New Haven.—Barney, S. E., Yale Univ.
Beck, F. J., Yale Univ.
Bishop, C. T., Yale Univ.
Brill, P. B., Yale Univ.
Conrad, A. G., Yale Univ.
Cooper, F. L., Yale Univ.
Cox, W. J., Yale Univ.
Daley, J. L., Yale Univ.
Doherty, R. E., Yale Univ.
Dudley, S. W., Yale Univ.
Eckle, J. N., Yale Univ.
Farnham, C. S., Yale Univ.
Gleason, G. S., Yale Univ.
Hall, W. B., Yale Univ.
Hastings, H. B., Yale Univ.
Keator, F. W., Yale Univ.
Kirby, R. S., Yale Univ.
Kovarik, Alois F., Yale Univ.
Laurson, Philip G., Yale Univ.
Lichty, L. C., Yale Univ.
McNamara, F. T., Yale Univ.
Mathewson, C. H., Yale Univ.
Milligan, W. E., Yale Univ.
Newton, R. H., Yale Univ.
Scott, C. F., Yale Univ.
Seward, H. L., Yale Univ.
Sherwood, W. W., Yale Univ.
Smith, E. D., Yale Univ.
Suttle, R. H., Yale Univ.
Teare, B. R., Yale Univ.

Tilden, C. J., Yale Univ.
Tracy, J. C., Yale Univ.
Turner, H. M., Yale Univ.
Warner, R. G., Yale Univ.
Warner, R. K., Yale Univ.
Waters. E. O., Yale Univ.
Wohlenberg, W. J., Yale Univ.
New London.—Dimick, C. E., Coast Guard Academy.
Storrs.—Moore, E. R., Agri. College.

DELAWARE

Newark.—Blumberg, Leo, Univ. of Del.
Coyle, J. L., Univ. of Del.
Eastman, A. S., Univ. of Del.
Harter, G. A., Univ. of Del.
Koerber, G. A., Univ. of Del.
Lindell, W. F., Univ. of Del.
Spencer, R. L., Univ. of Del.
Sypherd, W. O., Univ. of Del.

DISTRICT OF COLUMBIA

Washington.—Cruickshanks, B. C., Geo. Wash. Univ.
Downing, L. K., Howard Univ.
Hammond, J. H., 2301 Kalarama Rd., N.W.
Hedrick, W. A., Central High Sch
Hewitt, C. E.
Hood, O. P., 1831 Irving St., N.W.
Howard, D., Howard Univ.
Jacoby, H. S., 3000 Tilden St., N.W.
John, W. C., Office of Education.
Lapham, J. R., Geo. Wash. Univ.
Mann, C. R., 744 Jackson Place.
Richmond, A. E., Howard Univ.
Tyler, H. W., 744 Jackson Place.
Wallace, L. W., 744 Jackson Place.
Willis, P. A., Civil Service Comm.

FLORIDA

Coral Gables.—Clouse, J. H.
Fort Pierce.—Bennett, C. E.
Gainesville.—Brown, C. C., Univ. of Fla.
Dostal, B. F., Univ. of Fla.
Lowe, T. M., Univ. of Fla.
Reed, P. L., Univ. of Fla.
Strong, A. J., Univ. of Fla.
Van Leer, B. R., Univ. of Fla.
Walker, E .S., Univ. of Fla.
Weil, Jos., Univ. of Fla.
Lakeland.—Reinsch, B. P., Southern College.

GEORGIA

Atlanta.—Boggs, G. H., School of Tech.
Casa, A. A., School of Tech.
Duling, H. B., School of Tech.
Dunkin, W. V., School of Tech
Ebaugh, N. C., School of Tech.
Edwards, J. B., School of Tech.
Field, F., School of Tech.
Fitzgerald, T. W., School of Tech
Fulmer, H. K., School of Tech.
Holland, A. D., School of Tech.
Howell, R. S., School of Tech.
King, R. S., School of Tech.
McDaniel, J. E., School of Tech.
Mason, H. W., School of Tech.
Savant, D. P., School of Tech.
Skiles, W. V., School of Tech.
Snow, F. C., School of Tech.
Sweigert, R. L., School of Tech.
Trotter, R. A., School of Tech.
Weisiger, K., 206 E. 17 St.
Athens.—Driftmier, R. H.

HAWAII

Honolulu.—Andrews, C. B., Univ. of Hawaii.
Hoy, E. A., Univ. of Hawaii.
Keller, A. R., Univ. of Hawaii.

IDAHO

Boise.—Otter, J. V., 500 Franklin St.
Moscow.—Beresford, H., Univ. of Idaho.
Buchanan, J. E., Univ. of Idaho.
Cady, L. C., Univ. of Idaho.
Carter, I. N., Univ. of Idaho.
Crawford, I. C., Univ. of Idaho.
Finch, J. W., School of Mines.
Gauss, H. F., Univ. of Idaho.
Hull, R. H., Univ. of Idaho.
Janssen, A-S., Univ. of Idaho.
Johnson, J. H., Univ. of Idaho.
Schroeder, Wm., Univ. of Idaho.
von Ende, C. L., Univ. of Idaho.
Pocatello.—Gough, A. C., So. Branch.

ILLINOIS

Aurora.—Caughey, C. H.
Chicago.—Arnold, B. J., 230 S. Clark St.
Bates, O., 832 Belden Ave.
Bennett, J. G., Lewis Inst.
Bentley, W. J., Armour Inst.
Diemer, Hugo, 4101 S. Michigan Ave.
Earle, C. R., 11 S. LaSalle St.
Finnegan, J. B., Armour Inst.
Freeman, E. H., Armour Inst.
Gebhardt, G. F., Armour Inst.
Gilchrist, J. F., Commonwealth Edison Co.
Hafford, W. B., 330 N. Mason Ave.
Hall, W. C., Telephone Co.
Hansen, A. S., Hamilton Club.
Heald, H. T., Armour Inst.
Hendricks, W., Armour Inst.
Kegerreis, Roy, 311 N. Oak Park Ave.
Krathwohl, W. C., Armour Inst.
Leigh, C. W., Armour Inst.
Lurie, A. N., Tilden Tech. H. S.
Morey, C. W., 118 E. 26 St.
Nash, C. A., Armour Inst.
Paul, C. E., Armour Inst.
Peebles, J. C., Armour Inst.
Pence, W. D., 120 S. LaSalle St.
Penn, J. C., Armour Inst.
Perry, R. V., Armour Inst.
Richardson, D. E., Armour Inst.
Roesch, Daniel, Armour Inst.
Scherger, G. L., Armour Inst.
Schommer, J. J., Armour Inst.
Snow, J. E., Armour Inst.
Wade, F. H., Lewis Inst.

Wagner, H. A., 8 S. Mich. Ave.
Wells, M. B., Armour Inst.
Wilcox, G. M., Armour Inst.
Williams, S. N., 5448 W. Ohio.
Winston, S. E., Armour Inst.
Yenni, W. H., Lewis Inst.
Zucrow, M. J.

Decatur.—Kiefer, E. C., Milliken Univ.

Evanston.—Bauer, W. C., Northwestern Univ.
Bauer, W. M., Northwestern Univ.
Burger, W. H., Northwestern Univ.
Clousing, L. A., Northwestern Univ.
Maney, G. A., Northwestern Univ.
Philbrick, H. S., Northwestern Univ.
Rew, Irwin, 217 Dempster St.
Smith, W. G., Northwestern Univ.

Granite City.—Ludden, D. J.

Joliet.—Douglas, E. C., Jr. College.

LaGrange.—Wright, H. M., Junior College.

Peoria.—Comstock, C. E., Bradley Poly. Inst.
Swaim, Verne F., Bradley Poly. Inst.

Springfield.—Black, H. H.

Urbana.—Babbitt, H. E., Univ. of Ill.
Brooks, Morgan, Univ. of Ill.
Brown, H. A., Univ. of Ill.
Callen, A. C., Univ. of Ill.
Casberg, C. H., Univ. of Ill.
Collins, W. L., Univ. of Ill.
Cross, Hardy, Univ. of Ill.
Crossman, R. S., Univ. of Ill.
Dell, G. H., Univ. of Ill.
Doland, J. J., Univ. of Ill.
Draffin, J. O., Univ. of Ill.
Enger, M. L., Univ. of Ill.
Ensign, N. E., Univ. of Ill.
Foster, W. A., Univ. of Ill.
Hall, B. R., Univ. of Ill.
Hall, S. G., Univ. of Ill.
Ham, C. W., Univ. of Ill.
Hoelscher, R. P., Univ. of Ill.
Huntington, W. C., Univ. of Ill.
Jordan, H. H., Univ. of Ill.
Jorgensen, A., Univ. of Ill.
Ketchum, M. S., Univ. of Ill.
Keyes, D. B., Univ. of Ill.
King, E. E., Univ. of Ill.
Knight, A. R., Univ. of Ill.
Knipp, C. T., Univ. of Ill.
Laning, W. A., 601 So. Busey St.
Leutwiler, O. A., Univ. of Ill.
Moore, H. F., Univ. of Ill.
Nielsen, P. E., Univ. of Ill.
Oliver, W. A., Univ. of Ill.
Paine, E. B., Univ. of Ill.
Palmer, C. E., Univ. of Ill.
Pickels, G. W., Univ. of Ill.
Porter, F. M., Univ. of Ill.
Rayner, Wm. H., Univ. of Ill.
Reed, J. C., Univ. of Ill.
Schmidt, E. C., Univ. of Ill.
Schrader, H. J., Univ. of Ill.
Seely, F. B., Univ. of Ill.
Shedd, T. C., Univ. of Ill.
Springer, C. H., Univ. of Ill.
Starr, C. J., Univ. of Ill.
Talbot, Arthur N., Univ. of Ill.
Thomas, F. H., Univ. of Ill.
Tucker, L., Univ. of Ill.
Tuthill, J. K., Univ. of Ill.
Tykociner, J. T., Univ. of Ill.
Vawter, J., Univ. of Ill.
Walker, L. D., Univ. of Ill.
Willard, A. C., Univ. of Ill.
Wilson, W. M., Univ. of Ill.
Young, E. G., Univ. of Ill.

Winnetka.—Humphrey, H. K.

INDIANA

Angola.—Parrott, Alice A., Tri-State College.

Bloomington.—Hanna, U. S., Indiana Univ.

Columbia City.—Bridge, L. R., R. F. D. 6.

Evansville.—Fillmore, H. W., Evansville College.
Marchant, G. B., Evansville College.

Indianapolis.—Garman, H. O., 2062 Meridian St.

LaFayette.—Abbott, R. B., Purdue Univ.
Aitkenhead, Wm., Purdue Univ.
Arnold, J. N., Purdue Univ.
Bartlett, G. M., Purdue Univ.
Bauer, Paul, Purdue Univ.
Beck, L. E., Purdue Univ.
Blalock, G. C., Purdue Univ.
Bowman, J. H., Purdue Univ.
Bray, J. L., Purdue Univ.
Buxton, G. F., Purdue Univ.
Canfield, D. T., Purdue Univ.
Chambers, S. D., Purdue Univ.
Clark, D. S., Purdue Univ.
Craig, D. P., Purdue Univ.
Creek, H. L., Purdue Univ.
Curtner, D. L., Purdue Univ.
Cutshall, C. S., Purdue Univ.
Dietrich, J. J., Purdue Univ.
Dukes, R. G., Purdue Univ.
Egry, C. R., Purdue Univ.
Elliott, E. C., Purdue Univ.
Emrick, P. S., 750 7th Ave.
Ewing, D. D., Purdue Univ.
Fairman, S., Purdue Univ.
Freel, W. I., Purdue Univ.
Geiger, J. W., Purdue Univ.
Girvin, H. F., Purdue Univ.
Greiner, O. A., Purdue Univ.
Greve, F. W., Jr., Purdue Univ.
Harding, C. F., Purdue Univ.
Haskins, G. W., Purdue Univ.
Hatt, W. K., Purdue Univ.
Hawkins, G. A., Purdue Univ.
Hazard, C. T., Purdue Univ.
Hockema, F. C., Purdue Univ.
Hoffman, J. D., Purdue Univ.
Hollister, S. C., Purdue Univ.
Howland, W. E., Purdue Univ.
Keller, J. F., Purdue Univ.
King, G. C., Purdue Univ.
Knapp, W. A., Purdue Univ.
Lindley, R. W., Purdue Univ.
Lommel, G. E., Purdue Univ.
Ludy, L. V., Purdue Univ.
Marshall, Wm., Purdue Univ.
Meikle, G. S., Purdue Univ.
Miller, W. T., Purdue Univ.
Mueller, G. V., Purdue Univ.

Munro, G. W., Purdue Univ.
Peffer, H. C., Purdue Univ.
Petty, B. H., Purdue Univ.
Poorman, A. P., Purdue Univ.
Porsch, J. H., Purdue Univ.
Potter, A. A., Purdue Univ.
Reynolds, E. E., Purdue Univ.
Rising, J., Purdue Univ.
Ross, David E., Purdue Univ.
Rowell, L. D., Purdue Univ.
Rubenkoenig, H., Purdue Univ.
Sabbagh, E. M., Purdue Univ.
Sanders, W. B., Purdue Univ.
Sauers, J. A., Purdue Univ.
Serviss, F. L., Purdue Univ.
Sherman, G. W., Purdue Univ.
Shreve, R. N., Purdue Univ.
Slegel, Louis, Purdue Univ.
Solberg, H. L., Purdue Univ.
Springer, G. P., Purdue Univ.
Still, A., Purdue Univ.
Todd, M. W., Purdue Univ.
Topping, A. N., Purdue Univ.
Trueblood, R. B., Purdue Univ.
Turner, W. P., Purdue Univ.
Vellinger, A. J., Purdue Univ.
Wagner, C. L. H., Purdue Univ.
Walters, J. E., Purdue Univ.
Wendt, R. E., Purdue Univ.
Wiley, R. B., Purdue Univ.
Wunderlee, J. L., Purdue Univ.
Young, G. A., Purdue Univ.

Notre Dame.—Steiner, Fr., Univ. of Notre Dame.

Terre Haute.—Gray, H. C., Rose Poly. Inst.
Knipmeyer, C. C., Rose Poly. Inst.
McCormick, R. L., Rose Poly. Inst.
Prentice, D. B., Rose Poly. Inst.
Stock, O. L., Rose Poly. Inst.
White, John, Rose Poly. Inst.
Wischmeyer, Carl, Rose Poly. Inst.

Valparaiso.—Cushman, P. A., University.
Moody, H. W., University.

IOWA

Ames.—Agg, T. R., State College.
Anderson, H. W., State College.
Ayres, Q. C., State College.
Bevan, W. A., State College.
Brown, L. T., State College.
Caughey, R. A., State College.
Cleghorn, M. P., State College.
Dana, F. C., State College.
Davidson, J. B., State College.
Dodds, J. S., State College.
Ernst, G. C., State College.
Fish, F. A., State College.
Fuller, A. H., State College.
Gilkey, H. J., State College.
Hessler, V. P., State College.
Johnson, F. E., State College.
Jones, W. P., State College.
Kerekes, F., State College.
Kimball, A. H., State College.
Lange, P., State College.
Marston, Anson, State College.
McClain, F. H., State College.
McNeely, J. K., State College.
Meeker, W. H., State College.
Moyer, R. A., State College.
Murphy, Glenn, State College.
Murphy, L. J., State College.
Norman, R. A., State College.
Olson, O. A., State College.
Paustian, R. G., State College.
Raymond, W. R., State College.
Roudebush, R. E., State College.
Spinney, L. B., State College.
Stewart, L. O., State College.
Vilbrandt, F. C., State College.
Willis, B. S., State College.
Willmarth, E. H., State College.

Iowa City.—Baldwin, O. J., Univ. of Iowa.
Barnes, R. M., Univ. of Iowa.
Bartow, Ed., Univ. of Iowa.
Corcoran, G. F., Univ. of Iowa.
Croft, H. O., Univ. of Iowa.
Ekstrand, K. H., Univ. of Iowa.
Higbee, F. G., Univ. of Iowa.
Holmes, F. E., Univ. of Iowa.
Holt, A. H., Univ. of Iowa.
Keller, G. J., Univ. of Iowa.
Kittredge, R. B., Univ. of Iowa.
Kurtz, E. B., Univ. of Iowa.
Lambert, B. J., Univ. of Iowa.
Mavis, F. T., Univ. of Iowa.
Nagler, F. A., Univ. of Iowa.
O'Brien, A. V., Univ. of Iowa.
Posey, C. J., Univ. of Iowa.
Rietz, H. L., Univ. of Iowa.
Schone, F. P., Univ. of Iowa.
Stewart, G. W., Univ. of Iowa.
Waterman, E. L., Univ. of Iowa.
Whipple, R. R., Univ of Iowa.
Williams, C. C., Univ. of Iowa.
Woodward, S. M., Univ. of Iowa.

KANSAS

Lawrence.—Boyce, E., Univ. of Kansas.
Brown, F. L., Univ. of Kansas.
Grider, R. L., Univ. of Kansas.
Hay, E. D., Univ. of Kansas.
Hood, G. J., Univ. of Kansas.
Jackson, D. C., Jr., Univ. of Kansas.
Jones, F. E., Univ. of Kansas.
Jones, J. O., Univ. of Kansas.
Jordan, H. E., Univ. of Kansas.
Raymond, F. N., Univ. of Kansas.
Rice, H. A., Univ. of Kansas.
Russell, F. A., Univ. of Kansas.
Shaad, G. C., Univ. of Kansas.
Sluss, A. H., Univ. of Kansas.
Tait, R. S., Univ. of Kansas.
Warner, R. W., Univ. of Kansas.
Young, C. M., Univ. of Kansas.

Manhattan.—Barger, E. L., State College.
Brainard, B. B., State College.
Branigan, G. F., State College.
Brenneman, J. L., State College.
Calderwood, Jas. P., State College.
Carlson, W. W., State College.
Cheek, F. J., Jr., State College.
Conrad, L. E., State College.
Crawford, W. W., State College.
Davis, H. W., State College.
Dawley, E. R., State College.
Durland, M. A., State College.
Farrell, F. D., State College.
Fenton, F. C., State College.
Flinner, A. O., State College.

Frazier, F. F., State College.
Furr, M. W., State College.
Gingrich, R. F., State College.
Graham, E. C., State College.
Hamilton, J. O., State College.
Hunt, O. D., State College
Jones, E. C., State College.
Jorgenson, L. M., State College.
Kerchner, R. M., State College.
Kloeffler, R. G., State College.
Koenitzer, L. H., State College.
Lockard, R. I., State College.
Logan, C. A., State College.
Mack, A. J., State College.
Morse, R. F., State College.
Noble, P. M., State College.
Olsen, J. C., State College.
Paslay, L. C., State College.
Pearce, C. E., State College.
Pickett, Gerald, State College.
Remick, B. L., State College.
Robert, J. H., State College.
Scholer, C. H., State College.
Seaton, R. A., State College.
Sellers, G. A., State College.
Sitz, E. L., State College.
Smutz, F. A., State College.
Taylor, D. C., State College.
Weigel, Paul, State College.
White, L. V., State College.
Zink, F. J., State College.
Parsons.—Foademwalt, Fred.
Pittsburg.—Curfman, L. E.
Yates, J. A., Teachers College.
Wichita.—Marcellus, J. B., Federal Land Bank.
Winfield.—Albright, P. S., Southwestern College.

KENTUCKY

Lexington.—Barnett, B., Univ. of Ky.
Bureau, E. A., Univ. of Ky.
Crouse, C. S., Univ. of Ky.
Freeman, Wm. E., Univ. of Ky.
Horine, J. S., Univ. of Ky.
Jett, C. C., Univ. of Ky.
Mock, C. O., Univ. of Ky.
Nollau, L. E., Univ. of Ky.
O'Bannon, L. S., Univ. of Ky.
Terrell, D. V., Univ. of Ky.
Louisville.—Bennett, D. M., Univ. of Louisville.
Brigman, B. M., Univ. of Louisville.
Ernst, R. C., Univ. of Louisville.
Fenwick, H. H., Univ. of Louisville.
Fife, S. T., Univ. of Louisville.
Harding, G. H., Univ. of Louisville.
Haygood, T. F., Univ. of Louisville.
Houchens, J. M., Univ. of Louisville.
Koch, R. L., Univ. of Louisville.
McIntosh, W. R., Univ. of Louisville.
Ridd, S. J., Amer. Creosoting Co.
Roberts, J. M., Univ. of Louisville.
Shipman, F. M., Univ. of Louisville.
Simester, J. H., Univ. of Louisville.
Trosper, Ralph, Univ. of Louisville.
Wendt, W. B., Univ. of Louisville.

LOUISIANA

Baton Rouge.—Horton M., State Univ.
Webber, W. P., State Univ.
Lafayette.—Feusse, E. G., La. Inst.
Hughes, G. G., La. Inst.
New Orleans.—Anderson, D. S., Tulane Univ.
Derickson, Donald, Tulane Univ.
Elliott, D. S., Tulane Univ.
Fox, Frederick, Tulane Univ.
Gregory, W. B., Tulane Univ.
Hill, A. M., Tulane Univ.
Humphries, P. H., Tulane Univ.
Hustedt, H. F., Tulane Univ.
Ricker, C. W., Tulane, Univ.
Robert, J. M., Tulane Univ.

MAINE

East Holden.—Hoyt, L. B.
Orono.—Barrows, W. E., Jr., Univ. of Maine.
Bliss, W. H., Univ. of Maine.
Boardman, H. S., Univ. of Maine.
Brautlecht, C. A., Univ. of Maine.
Cloke, Paul, Univ. of Maine.
Dunham, E. M., Univ. of Maine.
Evans, W. S., Univ. of Maine.
Felker, E. J., Univ. of Maine.
Guerin, F. J., Univ. of Maine.
Hill, A. St. John, Univ. of Maine.
Jenness, L. C., Univ. of Maine.
Leavitt, H. W., Univ. of Maine.
Parr, B. F., Univ. of Maine.
Prageman, I. H., Univ. of Maine.
Sawyer, R. A., Univ. of Maine.
Scamman, W. F., Univ. of Maine.
Sparrow, T. A., Univ. of Maine.
Sprague, E. H., Univ. of Maine.
Stephenson, L. D., Univ. of Maine.
Sweetser, W. J., Univ. of Maine.
Watson, H. D., Univ. of Maine.
Waterville.—Wheeler, N. E., Colby College.

MARYLAND

Annapolis.—Clements, G. R., Naval Academy.
Gray, John C., Naval Academy.
Kavanaugh, D., Naval Academy.
Kiefer, P. J., Naval Academy.
Root, R. E., Naval Academy.
Terwilliger, C. O., Naval Academy.
Baltimore.—Christie, A. G., Johns Hopkins Univ.
Pullen, M. W., John Hopkins Univ.
Waldo, J. A., Lexington Bldg.
Catonsville.—Tyrrell, H. G.
College Park.—Pearson, R. A., Univ. of Md.
Lusby.—Rorty, M. C.
Port Deposit.—West, G. A.
Towson.—Michel, Rudolph.

MASSACHUSETTS

Amherst.—Ostrander, J. E., Mass. Agri. College.

Boston.—Alexander, W. T., Northeastern Univ.
Alvord, H. B., Northeastern Univ.
Baird, C. O., Northeastern Univ.
Baker, C. P., Northeastern Univ.
Barba, C. E., Boston & Maine R. R.
Barclay, S. D., 123 Heath St.
Cleveland, L. F., Northeastern Univ.
Coolidge, J. A., Northeastern Univ.
Dobbs, F. E., Wentworth Inst.
Edwards, W. W., Wentworth Inst.
Ell, Carl S., Northeastern Univ.
Erskine, H. E., Franklin Union.
Ferretti, A. J., Northeastern Univ.
Gramstorff, E. A., Northeastern Univ.
Haskins, E. E., Northeastern Univ.
Ingalls, J. W., Northeastern Univ.
Kingman, E. D., Wentworth Inst.
Knowles, M. G., Wentworth Inst.
La Bree, F. H., Northeastern Univ.
Main, C. T., 201 Devonshire St.
McGivern, J. G., Lincoln Inst.
Melvin, H. W., Northeastern Univ.
Meserve, G. H., Northeastern Univ.
Moyer, J. A., State House.
Nelson, W. P., New England T. & T. Co.
Nightingale, W. E., Northeastern Univ.
Norris, H. H., Boston Elevated Ry.
Porter, R. G., Northeastern Univ.
Russell, W. B., Franklin Union.
Smith, W. L., Northeastern Univ.
Spear, Jos., Northeastern Univ.
Stearns, F. A., Northeastern Univ.
Strahan, S. A. S., Northeastern Univ.
Thorogood, B. K., Franklin Union.
Tozer, E. F., Northeastern Univ.
Tudbury, C. W., Wentworth Inst.
White, W. C., Northeastern Univ.
Willson, F. G., Wentworth Inst.
Zeller, J. W., Northeastern Univ.
Zuffanti, S., Northeastern Univ.
Brookline.—Groat, B. F.
Cambridge.—Adams, Comfort A., Harvard Univ.
Babcock, J. B., M. I. T.
Bacon, G. M., 3 Hammond St.
Barrows, H. K., M. I. T.
Berry, C. H., Harvard Univ.
Berry, C. W., M. I. T.
Bowles, E. L., M. I. T.
Bradley, H. C., M. I. T.
Breed, C. B., M. I. T.
Buckingham, Earle, M. I. T.
Bush, V., M. I. T.
Clifford, H. E., Harvard Univ.
Compton, Karl T., M. I. T.
Dahl, O. G., M. I. T.
Dawes, C. L., Harvard Univ.
Dawes, L. M., M. I. T.
Drisko, W. J., M. I. T.
Fair, G. M., Harvard Univ.
Frazier, R. H., M. I. T.
Fuller, C. E., M. I. T.
Goodrich, A. L., M. I. T.
Graton, L. C., Harvard Univ.
Haertlein, Albert, Harvard Univ.
Homerberg, V. O., M. I. T.
Hosmer, Geo. L., M. I. T.
Howard, J. W., M. I. T.
Huntington, E. V., Harvard Univ.
Jackson, Dugald C., M. I. T.
James, W. H., M. I. T.
Jamison, W. W., M. I. T.
Johnson, L. J., Harvard Univ.
Johnston, W. A., M. I. T.
Kennedy, F. L., Harvard Univ.
Kennelly, A. E., Harvard Univ.
Lansil, C. E., M. I. T.
Lawrence, R. R., M. I. T.
Lewis, W. K., M. I. T.
Locke, C. E., M. I. T.
Magoun, F. A., M. I. T.
Marks, L. S., Harvard Univ.
McAdams, W. H., M. I. T.
McCabe, F. T., Rindge Tech. School.
McLaughlin, D. H., Harvard Univ.
Morss, E., 79 Sidney St.
Mulligan, J. E., M. I. T.
Neitzert, Carl, M. I. T.
Ninde, G. F., Harvard Univ.
Norcross, A. S., M. I. T.
Norton, A. E., Harvard Univ.
Norton, C. L., M. I. T.
Norton, P. W., M. I. T.
Park, C. F., M. I. T.
Pearson, H. G., M. I. T.
Quinlan, R. E., M. I. T.
Robbins, A. G., M. I. T.
Rossell, H. E., M. I. T.
Seaver, H. L., M. I. T.
Sloane, Alvin, M. I. T.
Smith, R. H., M. I. T.
Spofford, C. M., M. I. T.
Swett, G. W., M. I. T.
Taft, T. H., M. I. T.
Taylor, C. F., M. I. T.
Timble, W. H., M. I. T.
Townsend, A. L., M. I. T.
Tryon, J. L., M. I. T.
Tucker, C. E., M. I. T.
Van Wert, L. R., M. I. T.
Voss, W. C., M. I. T.
Watts, E. F., M. I. T.
Wildes, K. L., M. I. T.
Wilson, F. W., Wilson Eng. Corp.
Young, L. H., M. I. T.
Dedham.—Johndroe, S. G., 92 Schiller Road.
Williston, A. L., 986 High St.
Gloucester.—MacNutt, Barry.
Lynn.—Abbott, T. A., G. E. Co.
Moss, S. A., General Elec. Co.
Malden.—Porter, Dwight.
North Amherst.—Howe, C. S.
Quincy.—Vacha, Fred.
Tufts College.—Abbott, Robinson, Tufts College.
Bacon, G. P., Tufts College.
Burden, H. P., Tufts College.
Conner, S. L., Tufts College.
Durkee, F. W., Tufts College.
Farnham, W. E., Tufts College.
Fittz, R., Tufts College.
Harrison, J. R., Tufts College.
Holmberg, C. H., Tufts College.
Kendrick, G. W., Tufts College.
Leavitt, E. E., Tufts College.
Lefavour, R. W., Tufts College.

Leighton, A. W., Tufts College.
MacNaughton, Edgar, Tufts College.
Mitchell, D. H., Tufts College.
Munro, M. S., Tufts College.
Reynolds, James A., Tufts College.
Rollins, E. B., Tufts College.
Shaw, E. A., Tufts College.
Smith, R. A., Tufts College.
Weaver, F. N., Tufts College.
Wright, E. H., Tufts College.
Watertown.—O'Banion, A. L.
Wellesley Hills.—Perry, F. G., 119 Brook St.
West Roxbury.—Allen, C. Frank, 88 Montview St.
Worcester.—Adams, Francis J., Poly. Inst.
Allen, C. M., Poly. Inst.
Brown, E. C., Poly. Inst.
Duff, A. W., Poly. Inst.
Earle, Ralph, Poly. Inst.
French, A. W., Poly. Inst.
Gay, H. J., Poly. Inst.
Howe, J. W., Poly. Inst.
Knight, A. J., Poly. Inst.
Knight, C. D., Poly. Inst.
Larson, C. W., Poly. Inst.
MacCollough, G. H., Poly. Inst.
Maxfield, H. A., Poly. Inst.
Merriam, K. G., Poly. Inst.
Morgan, T. H., Poly. Inst.
Morley, R. K., Poly. Inst.
Newell, H. H., Poly. Inst.
Pierce, C. A., Poly. Inst.
Rice, Harris, Poly. Inst.
Roys, F. W., Poly. Inst.
Taylor, H. F., Poly. Inst.
Whenman, J. H., Poly. Inst.

MICHIGAN

Ann Arbor.—Attwood, S. S., Univ. of Mich.
Bailey, Benj. F., Univ. of Mich.
Bouchard, Harry, Univ. of Mich.
Bragg, E. M., Univ. of Mich.
Bukovsky, P. N., Univ. of Mich.
Bull, H. S., Univ. of Mich.
Bursley, J. A., Univ. of Mich.
Cissel, J. H., Univ. of Mich.
Clark, A. L., Univ. of Mich.
Cooley, M. E., Univ. of Mich.
Cushman, P. A., Univ. of Mich.
Decker, A. J., Univ. of Mich.
Dow, W. G., Univ. of Mich.
Emmons, W. J., Univ. of Mich.
Ericksen, E. L., Univ. of Mich.
Finch, F. R., Univ. of Mich.
Gram, L. M., Univ. of Mich.
Gwiazdowski, A. P., Univ. of Mich.
Higbie, H. H., Univ. of Mich.
Hoad, W. C., Univ. of Mich.
Jensen, G. L., Univ. of Mich.
Keeler, H. E., Univ. of Mich.
Kent, C. H., 717 E. Huron St.
King, H. W., Univ. of Mich.
Lloyd, H. R., Univ. of Mich.
Lovell, Alfred H., Univ. of Mich.
Miller, H. W., Univ. of Mich.
Moore, A. D., Univ. of Mich.
Morley, G. A., Univ. of Mich.
Morrison, R. L., Univ. of Mich.
Nelson, J. R., Univ. of Mich.
Olmsted, C. T., Univ. of Mich.
Orbeck, M. J., 401 Wildwood St.
Owens, H. D., Univ. of Mich.
Pawlowski, F. W., Univ. of Mich.
Pettengill, T. E., Univ. of Mich.
Riggs, H. E., Univ. of Mich.
Running, T. R., Univ. of Mich.
Sadler, H. C., Univ. of Mich.
Sherlock, R. H., Univ. of Mich.
Stout, M. B., Univ. of Mich.
Swinton, R. S., Univ. of Mich.
Timoshenko, S., Univ. of Mich.
Van den Brock, J. A., Univ. of Mich.
White, A. H., Univ. of Mich.
Detroit.—Blakeslee, B. N., Univ. of Detroit.
Carr, A. R., College of City.
Frankland, Ed., Univ. of Detroit.
Freund, C. J., Univ. of Detroit.
Gerardi, J., Univ. of Detroit.
Godfrey, W. P., Univ. of Detroit.
Hanson, T. C., Univ. of Detroit.
Johnston, C. C., Univ. of Detroit.
Lawrence, R. E., Lawrence Inst.
Mayrose, H. E., Univ. of Detroit.
Oliver, F. J., Univ. of Detroit.
Pajot, C. J., 13641 Dexter Blvd.
Perkins, D. L., College of City.
Staley, A. C., Chrysler Corp.
Swartz, B. K., Edison Co.
Warner, H. O., Univ of Detroit.
East Lansing.—Allen, Chester, State College.
Dirks, H. B., State College.
Fairbanks, O. W., State College.
Field, L. N., State College.
Foltz, L. S., State College.
Kinney, E. E., State College.
Plant, L. C., State College.
Reuling, W. E., State College.
Steward, R. K., State College.
Stewart, E. H., State College.
Flint.—Brown, C. A., Gen. Motors Inst.
Sobey, Albert, Gen. Motors Inst.
Spahr, R. H., Gen. Motors Inst.
Stout, C. E., Gen. Motors Inst.
Grand Rapids.—White, R. A., Jr. College.
Grass Lake.—Raymond, H. M.
Houghton.—Fisher, Jas., Jr., College of M. & M.
Hotchkiss, W. O., College of M. & M.
Manderfield, N. H., College of M. and M.
Swenson, G. W., College of M. & M.
Jackson.—Foote, J. H.

MINNESOTA

Duluth.—Cosandey, C. J., Junior College.
Ely.—Santo, J. H., Jr. College.
Minneapolis.—Akerman, J. D., Univ. of Minn.
Algren, A. B., Univ. of Minn.
Appleby, W. R., Univ. of Minn.
Archibald, Leon, Univ. of Minn.
Barker, C. L., Univ. of Minn.
Barlow, H. W., Univ. of Minn.
Bass, Fred., Univ. of Minn.
Boon, Leonard, Univ. of Minn.
Boss, Wm., Univ. of Minn.

Brinker, R. C., Univ. of Minn.
Brooke, W. E., Univ. of Minn.
Bryant, J. M., Univ. of Minn.
Campbell, J. M., Univ. of Minn.
Caverley, L. C., Univ. of Minn.
Comstock, E. H., Univ. of Minn.
Cowie, Alex., Univ. of Minn.
Cruzen, F. T., Univ. of Minn.
Cutler, A. S., Univ. of Minn.
Dalaker, H. H., Univ. of Minn.
Doeringsfeld, H. A., Univ. of Minn.
Dowdell, R. L., Univ. of Minn.
DuPriest, J. R., Univ. of Minn.
Easton, W. H., Univ. of Minn.
Eggers, H. C. T., Univ. of Minn.
Filipetti, G., Univ. of Minn.
Flodin, John, Univ. of Minn.
Ford, A. R., Univ. of Minn.
French, R. W., Univ. of Minn.
Gibbs, R. E., Univ. of Minn.
Hartig, H. E., Univ. of Minn.
Heisig, G. B., Univ. of Minn.
Herrick, Carl A., Univ. of Minn.
Hughes, T. P., Univ. of Minn.
Johnson, E. W., Univ. of Minn.
Kirchner, W. H., Univ. of Minn.
Koepke, C. A., Univ. of Minn.
Kuhlman, J. H., Univ. of Minn.
Leland, O. M., Univ. of Minn.
Levens, A. S., Univ. of Minn.
McClintock, W. M., Univ. of Minn.
Mann, C. A., Univ. of Minn.
Mann, F. M., Univ. of Minn.
Martenis, J. Van S., Univ. of Minn.
Miller, F. E., Univ. of Minn.
Montillon, G. H., Univ. of Minn.
Montonna, R. E., Univ. of Minn.
Myers, H. D., Univ. of Minn.
Palmer, H. K., Univ. of Minn.
Parker, W. H., Univ. of Minn.
Pettengill, T. E., Univ. of Minn.
Potter, O. W., Univ. of Minn.
Priester, G. C., Univ. of Minn.
Quaid, L. J., Univ. of Minn.
Robertson, B. J., Univ. of Minn.
Roe, H. B., Univ. of Minn.
Rowley, F. B., Univ. of Minn.
Ryan, J. J., Univ. of Minn.
Ryan, W. T., Univ. of Minn.
Schuck, R. F., Univ. of Minn.
Schwantes, A. J., Univ. of Minn.
Shoop, C. F., Univ. of Minn.
Siler, R. W., Univ. of Minn.
Strane, A. J., Univ. of Minn.
Straub, L. G., Univ. of Minn.
Todd, M. E., Univ. of Minn.
Turner, C. A. P., 300 Builders Exchange.
Zelner, O. S., Univ. of Minn.
St. Paul.—Madigan, J. A., College of St. Thomas.
White, H. B., Univ. of Minn.

MISSISSIPPI

State College.—Fox, L. H., State College.
Freeman, M. L., State College.
McCain, D. M., State College.
Patterson, L. L., State College.
University.—Hume, Alfred, Univ. of Miss.
Moorman, R. B. B., Univ. of Miss.

MISSOURI

Columbia.—Calvert, S., Univ. of Mo.
Gray, E. S., Univ. of Mo.
Hyde, A. L., Univ. of Mo.
Lanier, A. C., Univ. of Mo.
Lorah, J. R., Univ. of Mo.
McCaustland, E. J., Univ. of Mo.
Rodhouse, T. J., Univ. of Mo.
Rubey, H., Univ. of Mo.
Selvidge, R. W., Univ. of Mo.
Stewart, O. M., Univ. of Mo.
Weinbach, M. P., Univ. of Mo.
Wharton, J. R., Univ. of Mo.
Williams, W. S., Univ. of Mo.
Wood, H. W., Univ. of Mo.
Wooley, J. C., Univ. of Mo.
Kansas City.—Kent, J. M., 3241 Wabash Ave.
Porter, J. F., Kansas City L. & P. Co.
Rolla.—Raymond, A. T.
Armsby, H. H., School of Mines.
Butler, Joe B., School of Mines.
Frame, F. H., School of Mines.
Fulton, C. H., School of Mines.
Kilpatrick, A. V., School of Mines.
Lovett, I. H., School of Mines.
Mann, C. V., School of Mines.
Willis, P. A., School of Mines.
St. Louis.—Ball, T. R., Wash. Univ.
Berger, F. A., Wash. Univ.
Brick, B. R., Wash. Univ.
Bubb, F. W., Wash. Univ.
Butler, H. L., Wash. Univ.
Derby, F. H., Wash. Univ.
Grumman, H. R., Wash. Univ.
Hannaford, E. S., A. T. & T. Co.
Koenig, L. R., Wash. Univ.
Langsdorf, A. S., Wash. Univ.
Middlemiss, R. R., Wash. Univ.
Miller, Hugh, Hotel Mayfair.
Ohle, E. L., Washington Univ.
Short, R. L., 3921 N. Newstead St.
Siroky, E., Wash. Univ.
Sweetser, E. O., Wash. Univ.
Upson, W. L., Wash. Univ.
Van Ornum, J. L., Wash. Univ.

MONTANA

Bozeman.—Challender, R. T., State College.
Cobleigh, W. M., State College.
Conkling, L. D., State College.
Good, M. R., State College.
Tallman, W. D., State College.
Thaler, J. A., State College.
Therkelsen, Eric, State College.
Butte.—Thomson, F. A., School of Mines.

NEBRASKA

Lincoln.—Aakhus, T., Univ. of Nebr.
Bingham, L. A., Univ. of Nebr.
Booth, J. L., Univ. of Nebr.
Brackett, E. E., Univ. of Nebr.
Brenke, W. C., Univ. of Nebr.
Brunig, M. P., Univ. of Nebr.
Bunting, A. E., Univ. of Nebr.
Chatburn, G. R., Univ. of Nebr.
DeBaufre, W. L., Univ. of Nebr.
Duff, C. M., Univ. of Nebr.
Edison, O. E., Univ. of Nebr.

Leighton, A. W., Tufts College.
MacNaughton, Edgar, Tufts College.
Mitchell, D. H., Tufts College.
Munro, M. S., Tufts College.
Reynolds, James A., Tufts College.
Rollins, E. B., Tufts College.
Shaw, E. A., Tufts College.
Smith, R. A., Tufts College.
Weaver, F. N., Tufts College.
Wright, E. H., Tufts College.
Watertown.—O'Banion, A. L.
Wellesley Hills.—Perry, F. G., 119 Brook St.
West Roxbury.—Allen, C. Frank, 88 Montview St.
Worcester.—Adams, Francis J., Poly. Inst.
Allen, C. M., Poly. Inst.
Brown, E. C., Poly. Inst.
Duff, A. W., Poly. Inst.
Earle, Ralph, Poly. Inst.
French, A. W., Poly. Inst.
Gay, H. J., Poly. Inst.
Howe, J. W., Poly. Inst.
Knight, A. J., Poly. Inst.
Knight, C. D., Poly. Inst.
Larson, C. W., Poly. Inst.
MacCollough, G. H., Poly. Inst.
Maxfield, H. A., Poly. Inst.
Merriam, K. G., Poly. Inst.
Morgan, T. H., Poly. Inst.
Morley, R. K., Poly. Inst.
Newell, H. H., Poly. Inst.
Pierce, C. A., Poly. Inst.
Rice, Harris, Poly. Inst.
Roys, F. W., Poly. Inst.
Taylor, H. F., Poly. Inst.
Whenman, J. H., Poly. Inst.

MICHIGAN

Ann Arbor.—Attwood, S. S., Univ. of Mich.
Bailey, Benj. F., Univ. of Mich.
Bouchard, Harry, Univ. of Mich.
Bragg, E. M., Univ. of Mich.
Bukovsky, P. N., Univ. of Mich.
Bull, H. S., Univ. of Mich.
Bursley, J. A., Univ. of Mich.
Cissel, J. H., Univ. of Mich.
Clark, A. L., Univ. of Mich.
Cooley, M. E., Univ. of Mich.
Cushman, P. A., Univ. of Mich.
Decker, A. J., Univ. of Mich.
Dow, W. G., Univ. of Mich.
Emmons, W. J., Univ. of Mich.
Ericksen, E. L., Univ. of Mich.
Finch, F. R., Univ. of Mich.
Gram, L. M., Univ. of Mich.
Gwiazdowski, A. P., Univ. of Mich.
Higbie, H. H., Univ. of Mich.
Hoad, W. C., Univ. of Mich.
Jensen, G. L., Univ. of Mich.
Keeler, H. E., Univ. of Mich.
Kent, C. H., 717 E. Huron St.
King, H. W., Univ. of Mich.
Lloyd, H. R., Univ. of Mich.
Lovell, Alfred H., Univ. of Mich.
Miller, H. W., Univ. of Mich.
Moore, A. D., Univ. of Mich.
Morley, G. A., Univ. of Mich.
Morrison, R. L., Univ. of Mich.
Nelson, J. R., Univ. of Mich.
Olmsted, C. T., Univ. of Mich.
Orbeck, M. J., 401 Wildwood St.
Owens, H. D., Univ. of Mich.
Pawlowski, F. W., Univ. of Mich.
Pettengill, T. E., Univ. of Mich.
Riggs, H. E., Univ. of Mich.
Running, T. R., Univ. of Mich.
Sadler, H. C., Univ. of Mich.
Sherlock, R. H., Univ. of Mich.
Stout, M. B., Univ. of Mich.
Swinton, R. S., Univ. of Mich.
Timoshenko, S., Univ. of Mich.
Van den Brock, J. A., Univ. of Mich.
White, A. H., Univ. of Mich.
Detroit.—Blakeslee, B. N., Univ. of Detroit.
Carr, A. R., College of City.
Frankland, Ed., Univ. of Detroit.
Freund, C. J., Univ. of Detroit.
Gerardi, J., Univ. of Detroit.
Godfrey, W. P., Univ. of Detroit.
Hanson, T. C., Univ. of Detroit.
Johnston, C. C., Univ. of Detroit.
Lawrence, R. E., Lawrence Inst.
Mayrose, H. E., Univ. of Detroit.
Oliver, F. J., Univ. of Detroit.
Pajot, C. J., 13641 Dexter Blvd.
Perkins, D. L., College of City.
Staley, A. C., Chrysler Corp.
Swartz, B. K., Edison Co.
Warner, H. O., Univ of Detroit.
East Lansing.—Allen, Chester, State College.
Dirks, H. B., State College.
Fairbanks, O. W., State College.
Field, L. N., State College.
Foltz, L. S., State College.
Kinney, E. E., State College.
Plant, L. C., State College.
Reuling, W. E., State College.
Steward, R. K., State College.
Stewart, E. H., State College.
Flint.—Brown, C. A., Gen. Motors Inst.
Sobey, Albert, Gen. Motors Inst.
Spahr, R. H., Gen. Motors Inst.
Stout, C. E., Gen. Motors Inst.
Grand Rapids.—White, R. A., Jr. College.
Grass Lake.—Raymond, H. M.
Houghton.—Fisher, Jas., Jr., College of M. & M.
Hotchkiss, W. O., College of M. & M.
Manderfield, N. H., College of M. and M.
Swenson, G. W., College of M. & M.
Jackson.—Foote, J. H.

MINNESOTA

Duluth.—Cosandey, C. J., Junior College.
Ely.—Santo, J. H., Jr. College.
Minneapolis.—Akerman, J. D., Univ. of Minn.
Algren, A. B., Univ. of Minn.
Appleby, W. R., Univ. of Minn.
Archibald, Leon, Univ. of Minn.
Barker, C. L., Univ. of Minn.
Barlow, H. W., Univ. of Minn.
Bass, Fred., Univ. of Minn.
Boon, Leonard, Univ. of Minn.
Boss, Wm., Univ. of Minn.

Brinker, R. C., Univ. of Minn.
Brooke, W. E., Univ. of Minn.
Bryant, J. M., Univ. of Minn.
Campbell, J. M., Univ. of Minn.
Caverley, L. C., Univ. of Minn.
Comstock, E. H., Univ. of Minn.
Cowie, Alex., Univ. of Minn.
Cruzen, F. T., Univ. of Minn.
Cutler, A. S., Univ. of Minn.
Dalaker, H. H., Univ. of Minn.
Doeringsfeld, H. A., Univ. of Minn.
Dowdell, R. L., Univ. of Minn.
DuPriest, J. R., Univ. of Minn.
Easton, W. H., Univ. of Minn.
Eggers, H. C. T., Univ. of Minn.
Filipetti, G., Univ. of Minn.
Flodin, John, Univ. of Minn.
Ford, A. R., Univ. of Minn.
French, R. W., Univ. of Minn.
Gibbs, R. E., Univ. of Minn.
Hartig, H. E., Univ. of Minn.
Heisig, G. B., Univ. of Minn.
Herrick, Carl A., Univ. of Minn.
Hughes, T. P., Univ. of Minn.
Johnson, E. W., Univ. of Minn.
Kirchner, W. H., Univ. of Minn.
Koepke, C. A., Univ. of Minn.
Kuhlman, J. H., Univ. of Minn.
Leland, O. M., Univ. of Minn.
Levens, A. S., Univ. of Minn.
McClintock, W. M., Univ. of Minn.
Mann, C. A., Univ. of Minn.
Mann, F. M., Univ. of Minn.
Martenis, J. Van S., Univ. of Minn.
Miller, F. E., Univ. of Minn.
Montillon, G. H., Univ. of Minn.
Montonna, R. E., Univ. of Minn.
Myers, H. D., Univ. of Minn.
Palmer, H. K., Univ. of Minn.
Parker, W. H., Univ. of Minn.
Pettengill, T. E., Univ. of Minn.
Potter, O. W., Univ. of Minn.
Priester, G. C., Univ. of Minn.
Quaid, L. J., Univ. of Minn.
Robertson, B. J., Univ. of Minn.
Roe, H. B., Univ. of Minn.
Rowley, F. B., Univ. of Minn.
Ryan, J. J., Univ. of Minn.
Ryan, W. T., Univ. of Minn.
Schuck, R. F., Univ. of Minn.
Schwantes, A. J., Univ. of Minn.
Shoop, C. F., Univ. of Minn.
Siler, R. W., Univ. of Minn.
Strane, A. J., Univ. of Minn.
Straub, L. G., Univ. of Minn.
Todd, M. E., Univ. of Minn.
Turner, C. A. P., 300 Builders Exchange.
Zelner, O. S., Univ. of Minn.

St. Paul.—Madigan, J. A., College of St. Thomas.
White, H. B., Univ. of Minn.

MISSISSIPPI

State College.—Fox, L. H., State College.
Freeman, M. L., State College.
McCain, D. M., State College.
Patterson, L. L., State College.

University.—Hume, Alfred, Univ. of Miss.
Moorman, R. B. B., Univ. of Miss.

MISSOURI

Columbia.—Calvert, S., Univ. of Mo.
Gray, E. S., Univ. of Mo.
Hyde, A. L., Univ. of Mo.
Lanier, A. C., Univ. of Mo.
Lorah, J. R., Univ. of Mo.
McCaustland, E. J., Univ. of Mo.
Rodhouse, T. J., Univ. of Mo.
Rubey, H., Univ. of Mo.
Selvidge, R. W., Univ. of Mo.
Stewart, O. M., Univ. of Mo.
Weinbach, M. P., Univ. of Mo.
Wharton, J. R., Univ. of Mo.
Williams, W. S., Univ. of Mo.
Wood, H. W., Univ. of Mo.
Wooley, J. C., Univ. of Mo.

Kansas City.—Kent, J. M., 3241 Wabash Ave.
Porter, J. F., Kansas City L. & P. Co.

Rolla.—Raymond, A. T.
Armsby, H. H., School of Mines.
Butler, Joe B., School of Mines.
Frame, F. H., School of Mines.
Fulton, C. H., School of Mines.
Kilpatrick, A. V., School of Mines.
Lovett, I. H., School of Mines.
Mann, C. V., School of Mines.
Willis, P. A., School of Mines.

St. Louis.—Ball, T. R., Wash. Univ.
Berger, F. A., Wash. Univ.
Brick, B. R., Wash. Univ.
Bubb, F. W., Wash. Univ.
Butler, H. L., Wash. Univ.
Derby, F. H., Wash. Univ.
Grumman, H. R., Wash. Univ.
Hannaford, E. S., A. T. & T. Co.
Koenig, L. R., Wash. Univ.
Langsdorf, A. S., Wash. Univ.
Middlemiss, R. R., Wash. Univ.
Miller, Hugh, Hotel Mayfair.
Ohle, E. L., Washington Univ.
Short, R. L., 3921 N. Newstead St.
Siroky, E., Wash. Univ.
Sweetser, E. O., Wash. Univ.
Upson, W. L., Wash. Univ.
Van Ornum, J. L., Wash. Univ.

MONTANA

Bozeman.—Challender, R. T., State College.
Cobleigh, W. M., State College.
Conkling, L. D., State College.
Good, M. R., State College.
Tallman, W. D., State College.
Thaler, J. A., State College.
Therkelsen, Eric, State College.

Butte.—Thomson, F. A., School of Mines.

NEBRASKA

Lincoln.—Aakhus, T., Univ. of Nebr.
Bingham, L. A., Univ. of Nebr.
Booth, J. L., Univ. of Nebr.
Brackett, E. E., Univ. of Nebr.
Brenke, W. C., Univ. of Nebr.
Brunig, M. P., Univ. of Nebr.
Bunting, A. E., Univ. of Nebr.
Chatburn, G. R., Univ. of Nebr.
DeBaufre, W. L., Univ. of Nebr.
Duff, C. M., Univ. of Nebr.
Edison, O. E., Univ. of Nebr.

Evinger, M. I., Univ. of Nebr.
Ferguson, O. J., Univ. of Nebr.
Grone, E. A., Univ. of Nebr.
Haney, Jiles W., Univ. of Nebr.
Harkness, D. H., Univ. of Nebr.
Keim, P. F., 1618 Wash. St.
Kesner, H. J., Univ. of Nebr.
Luebs, A. A., Univ. of Nebr.
Mickey, C. E., Univ. of Nebr.
Norris, F. W., Univ. of Nebr.
Richmond, R. F., Univ. of Nebr.
Sjogren, C. A., Univ. of Nebr.
Slaymaker, P. K., Univ. of Nebr.
Smith, T. T., Univ. of Nebr.
Weiland, W. F., Univ. of Nebr.
Omaha.—Lambert, L. S., Telephone Co.

NEVADA

Las Vegas.—DeLay, F. A.
Reno.—Boardman, H. P., Univ. of Nev.
Sibley, F. H., Univ. of Nev.

NEW HAMPSHIRE

Durham.—Bowler, E. W., Univ. of N. H.
Case, G. W., Univ. of N. H.
Donovan, E. T., Univ. of N. H.
Getchell, E. L., Univ. of N. H.
Hitchcock, L. W., Univ. of N. H.
Laton, T. J., Univ. of N. H.
Pettee, C. H., Univ. of N. H.
Slobin, H. L., Univ. of N. H.
Solt, M. R., Univ. of N. H.
Stolworthy, E. H., Univ. of N. H.
Vicker, J. J., Univ. of N. H.
Wilbur, W. E., Univ. of N. H.
Hanover.—Garran, F. W., Dartmouth College.
Holden, C. A., Dartmouth College.
Lockwood, H. J., Dartmouth College.
Marsden, R. R., Dartmouth College.

NEW JERSEY

Burlington.—Mott, W. E.
East Orange.—Carey, R. A.
Grantwood.—Crouch, C. H.
Hoboken.—Backer, L. H., Stevens Inst.
Barnwell, G. W., Stevens Inst.
Davis, H. N., Stevens Inst.
Douglas, J. A. Stevens Inst.
Furman, F. DeR., Stevens Inst.
Halliday, W. R., Stevens Inst.
Hazeltine, Alan, Stevens Inst.
Hodge, Percy, Stevens Inst.
Lott, S. H., Stevens Inst.
O'Connor, J., Stevens Inst.
Pond, F. J., Stevens Inst.
Slingesland, S., Stevens Inst.
Stempel, W. M., Stevens Inst.
Stockwell, F. C., Stevens Inst.
Weimar, G. M., Stevens Inst.
Jersey City.—Steele, Jas. N., Dickinson H. S.
Kearny.—Dietz, J. W., 100 Central Ave.
Searles, C. L., Western Elec. Co.
Manasquan.—Moore, G. R.
Montclair.—Alford, L. P., 9 Mountain Ave.
Newark.—Bradley, J. A., College of Eng.
Brooks, J. A., College of Eng.
Burns, F. J., College of Eng.
Cullimore, A. R., College of Eng.
Cummings, H. N., College of Eng.
Davis, D. E., College of Eng.
Entwisle, F. N., College of Eng.
Fishman, S., College of Eng.
Giesy, P. M., College of Eng.
Kiernan, C. J., College of Eng.
Kohler, A. S., College of Eng.
Metzenheim, H. H., College of Eng.
Nims, A. A., College of Eng.
Peet, J. C., College of Eng.
Rice, R. B., College of Eng.
Schweizer, P. E., College of Eng.
Stewart, V. T., College of Eng.
Van Houten, R. W., College of Eng.
Weishampel, J. A., College of Eng.
Weston, Ed., Weston Electrical Instrument Co.
Widdop, Robt., College of Eng.
New Brunswick.—Creager, P. S., Rutgers Univ.
Daggett, P. H., Rutgers Univ.
Gaum, C. G., Rutgers Univ.
Hatfield, H. D., Rutgers Univ.
Heck, R. C. H., Rutgers Univ
Holland, U. C., Rutgers Univ.
Hoover, P. L., Rutgers Univ.
Johnson, A. R., Rutgers Univ.
Kahn, Louis, Rutgers Univ.
Lendall, H. N., Rutgers Univ.
Marin, Jos., Rutgers Univ.
Mehrof, F. E., Rutgers Univ.
Pumphrey, F. H., Rutgers Univ.
Slade, J. J., Rutgers Univ.
Stephenson, S. A., Jr., Rutgers Univ.
Phillipsburg.—Doyle, F. B.
Princeton.—Beggs, G. E., Princeton Univ.
Constant, F. H., Princeton Univ.
Culver, E. P., Princeton Univ.
Elgin, J. C., Princeton Univ.
Greene, A. M., Jr., Princeton Univ.
Heacock, F. A., Princeton Univ.
Moody, L. F., Princeton, Univ.
Sorenson, A. E., Princeton Univ.
Timby, E. K., Princeton Univ.
Willis, C. H., Princeton Univ.

NEW MEXICO

Albuquerque.—Dorroh, J. H., Univ. of N. M.
Farris, M. E., Univ. of N. M.
Munro, R. J., Univ. of N. M.
Russell, C., Univ. of N. M.
Las Vegas.—Mayer, E. J.
Socorro.—Talmage, S. B., School of Mines.
Wells, E. H., School of Mines.
State College.—Fleming, B. P.
Garst, H. O., State College.
Jett, D. B., State College.

NEW YORK

Albany.—Horner, H. H.
Ballston Lake.—Beyer, E. W.
Brooklyn.—Beach, Robin, Poly. Inst.

Bean, H. E., Pratt Inst.
Benedict, Otis, Pratt Inst.
Berry, W. J., Poly. Inst.
Bivins, C. E., Pratt Inst.
Burley, J. W., Pratt Inst.
Cameron, Hugh, Pratt Inst.
Canavaciol, F. E., Poly. Inst.
Carr, C. C., Pratt Inst.
Carvin, F. D., Poly. Inst.
Church, E. F., Poly. Inst.
Codwise, H. R., Poly. Inst.
Colston, A. L., Tech. H. S.
Cook, Arthur L., Pratt Inst.
Cowles, W. H. H., Pratt Inst.
Dale, R. B., Pratt Inst.
Dixon, Tod G., Pratt Inst.
Doll, A. W., Pratt Inst.
Donahue, T. L., Poly. Inst.
Edmunds, S. S., Pratt Inst.
Egilsrud, F. S., Pratt Inst.
Fay, I. W., Poly. Inst.
Fraim, P. B., Poly. Inst.
Hammond, H. P., Poly. Inst.
Hargest, W. J., Pratt Inst.
Hausmann, E., Poly. Inst.
Hertzler, E. A., Pratt Inst.
Hostetter, H. C., Pratt Inst.
Hunter, J. W., Pratt Inst.
Isenberg, D. A., Pratt Inst.
Jones, C. B., Pratt Inst.
Knowles, R. C., Pratt Inst.
Lambe, E. P., Pratt Inst.
Lambertine, J. A., Poly. Inst.
Lueth, I. B., Pratt Inst.
MacKenzie, N. W., Pratt Inst.
Mantell, C. L., Pratt Inst.
Miller, H. P., Pratt Inst.
Ming, Fred W., Poly. Inst.
Nesbitt, R. E., Pratt Inst.
Olsen, J. C., Poly. Inst.
Parker, J. C., Brooklyn Edison Co.
Quier, K. E., Pratt Inst.
Rader, L. F., Poly. Inst.
Reagan, L. M., Poly. Inst.
Rogers, Allen, Pratt Inst.
Rogers, H. S., Poly. Inst.
Schmidt, H. P., Pratt Inst.
Schwartz, F. L., Pratt Inst.
Setchell, J. E., Poly. Inst.
Slack, E. P., Poly. Inst.
Squire, E. J., Poly. Inst.
Streubel, E. J., Poly. Inst.
Thompson, J. E., Pratt Inst.
Toole, C. E., Pratt Inst.
Van Gaasbeck, R. M., Pratt Inst.
Whipple, C. C., Poly. Inst.
Witham, R. L., Sperry Gyro. Co.
Wright, D. H., Pratt Inst.

Buffalo.—Capen, S. P., Univ. of Buffalo.
Wing, F. H., 1401 N. Y. Telephone Bldg.

Glen Cove.—Pratt, Charles.

Ithaca.—Barnard, W. N., Cornell Univ.
Bangs, J. R., Cornell Univ.
Barnes, F. A., Cornell Univ.
Boothroyd, S. L., Cornell Univ.
Bristol, F. J., Cornell Univ.
Cleary, S. F., Cornell Univ.
Conwell, W. L., Cornell Univ.
Cornell, W. R., Cornell Univ.
Diederichs, Herman, Cornell Univ.
Ellenwood, F. O., Cornell Univ.
Garrett, S. S., Cornell Univ.
George, S. G., Cornell Univ.
Grantham, G. E., Cornell Univ.
Griffith, D. M., Cornell Univ.
Howell, E. V., Cornell Univ.
Kimball, D. S., Cornell Univ.
Lee, M. A., Cornell Univ.
Lincoln, P. M., Cornell Univ.
Meserve, W. E., Cornell Univ.
Perry, J. E., Cornell Univ.
Pond, M. A., Cornell Univ.
Rettger, E. W., Cornell Univ.
Sawdon, W. M., Cornell Univ.
Scofield, H. H., Cornell Univ.
Townsend, C. E., Cornell Univ.
Underwood, P. H., Cornell Univ.
Walker, Chas. L., Cornell Univ.
Wood, E. H., Cornell Univ.
Wood, K. D., Cornell Univ.

Long Beach.—Lyon, D. R.

Mayville.—Frampton, G. O.

New Rochelle.—Anthony, G. C.
Copley, J. O., 75 5th Ave.
Hendrick, T. K. A., 58 Forest Ave.

New York.—Autenreith, G. C., C. C. N. Y.
Ayars, W. S., Columbia Univ.
Baker, D., N. Y. Univ.
Ball, Albert, Cooper Union.
Balmford, J. A., Columbia Univ.
Barker, J. W., Columbia Univ.
Barney, E. S., 36 Stuyvesant St.
Barrett, S. K., N. Y. Univ.
Bateman, G. F., Cooper Union.
Baum, Harry, C. C. N. Y.
Beyer, A. H., Columbia Univ.
Bischof, G. J., C. C. N. Y.
Bliss, C. P., N. Y. Univ.
Blossom, F., 52 Williams St.
Boggs, R. W., Union Carbide Co.
Bro. A. Leo, Manhattan College.
Bro. Felix, Manhattan College.
Brown, W. F., Columbia Univ.
Bruckner, A., College of City N. Y.
Brumfield, R. C., Cooper Union.
Bryans, W. R., N. Y. Univ.
Buck, A. M., 10th Ave. at 36th St.
Bullock, W. E., 33 Rector St.
Burr, W. H., 346 Broadway.
Church, A. H., Cooper Union.
Coburn, T., 440 4th Ave.
Colby, W. C., Standard Oil Co.
Collyer, Norman, 1152 Paramount Bldg.
Coonradt, A. C., N. Y. Univ.
Costa, J. J., Manhattan College.
Crosby, L. S., 15 Dey St.
Curry, W. A., Columbia Univ.
Davies, C. E., 29 W. 29th St.
Davis, H. L., 140 West St.
Deller, R. A., Bell Lab.
Denue, W. R., Manhattan College.
Distler, T. A., N. Y. Univ.
Dooley, C. R., 26 Broadway.
Dunham, Heber, N. Y. Univ.
Eidmann, F. L., Columbia Univ.
Emerson, L. A., Y. M. C. A.
Eshbach, O. W., 195 Broadway.
Fairburn, A. J. B., Cooper Union.
Finch, J. K., Columbia Univ.
Findley, W. G., Cooper Univ.
Fiske, D. L., 37 W. 39th St.
Fleming, Robins, 71 Broadway.
Foss, F. E., Cooper Union.
Foss, M. M., 330 W. 42d St.
Fry, T. C., 463 West St.

Furia, J. J., Manhattan College.
Gus, C. E., N. Y. Univ.
Halligan, C. W., 195 Broadway.
Halsey, Hugh, Cooper Union.
Hamilton, Edw. P., 440 Fourth Ave.
Harrington, T. H., Columbia Univ.
Heany, A. C., Van Nostrand Co.
Heffner, R. J., Bell Lab.
Hehre, F. W., Columbia Univ.
Henline, H. H., 33 W. 39th St.
Herr, E. M., 150 Broadway.
Hinckley, A. D., Columbia Univ.
Hooper, E. G., N. Y. Univ.
Hope, H. B., Cooper Union.
Hotchkiss, C. H. B., 148 Lafayette St.
Jackson, D. D., Columbia Univ.
Jackson, J. P., 4 Irving Place.
Jacobus, D. S., 85 Liberty St.
Jewett, F. B., 195 Broadway.
Karelitz, G. B., Columbia Univ.
Kern, E. F., Columbia Univ.
Klemin, A., N. Y. Univ.
Krefeld, W. J., Columbia Univ.
Lee, F. H., Columbia Univ.
Lehmann, C. H., Cooper Union.
Le Page, C. B., 29 W. 39th St.
Lewisohn, Sam, 61 Broadway.
Livingston, R. T., Columbia Univ.
Long, M. B., 463 West St.
Lucke, C. E., Columbia Univ.
Lytle, C. W., N. Y. Univ.
Mason, H. L., Columbia Univ.
McDonald, P. B., N. Y. Univ.
McKee, R. H., Columbia Univ.
Merritt, H. W., Cooper Union.
Mills, John, 463 West St.
Morgan, J. J., Columbia Univ.
Morrison, G., Cooper Union.
Murrie, J. L., 4 Irving Place
Newman, A. B., Cooper Union.
Nordenholt, G. F., 10th Ave. at 36 St.
O'Connell, D. J., Manhattan College.
Osborne, L. A., 150 Broadway.
Peck, J. S., C. C. N. Y.
Pegram, Geo. B., Columbia Univ.
Perez, Lawrence, Cooper Union.
Peterson, A. I., N. Y. Univ.
Porter, D. B., N. Y. Univ.
Potts, Clyde, 30 Church St.
Pupin, M. I., Columbia Univ.
Quigley, L. V., 730 Fifth Ave.
Rathbun, J. C., C. C. N. Y.
Rautenstrauch, W., Columbia Univ.
Read, T. T., Columbia Univ.
Rees, R. I., 195 Broadway.
Richmond, A. P., 29 W. 39th St.
Roe, J. W., N. Y. Univ.
Roemmele, H. F., Cooper Union.
Rossmassler, C., Cooper Union.
Roth, C. O., Cooper Union.
Sailer, L. R., Columbia Univ.
Salma, E. A., Cooper Union.
Saville, T., N. Y. Univ.
Schumann, C. H., Columbia Univ.
Schwarze, C. T., N. Y. Univ.
Seabury, G. T., 29 W. 39th St.
Severinghaus, W. L., Columbia Univ.
Sheppard, H. S., 195 Broadway.
Shoudy, W. A., Columbia Univ.
Singer, F. L., N. Y. Univ.
Skinkle, J. W., 195 Broadway.
Skene, Fred., C. C. N. Y.
Slichter, W. I., Columbia Univ.
Smith, E. B., C. C. N. Y.
Steinman, D. B., 117 Liberty St.
Stetson, G. A., 29 W. 39 St.
Stillwell, L. B., Union League Club.
Tarr, A. L. Cooper Union.
Teichmann, F. K., N. Y. Univ.
Thomas, G. B., 463 West St.
Thompson, Jas., 330 W. 42nd St.
Tilghman, H., 15 Broad St.
Towle, N. L., Cooper Union.
Townsend, A. H., U. Y. Univ.
Triest, R. M., 440 4th Ave.
Trowbridge, D. S., N. Y. Univ.
Turner, D. L., Turner Const. Co.
Veal, C. B., 29 W. 39th St.
Vopat, W. A., Cooper Union.
Wait, J. C., 11 Park Place.
Waddell, J. A. L., 142 Maiden Lane.
Walker, Amasa, 55 5th Ave.
Walker, H. N., N. Y. Univ.
Walter, O. W., C. C. N. Y.
Ward, G. C., 330 W. 42nd St.
Weaver, L. H. A., 60 E. 42d St.
Weaver, R. R., 195 Broadway.
Wiley, W. O., 440 Fourth Ave.
Williams, J. P. J., Cooper Union.
Wood, Ben D., Columbia Univ.
Work, L. T., Columbia Univ.
Young, C. H., Cooper Union.
de Zafra, C., N. Y. Univ.

Plattsburgh.—Henshaw, C. N.

Potsdam.—Allison, W. H., Clarkson College.
Brooks, J. P., Clarkson College.
Piper, F. F., Clarkson College.
Ross, J. A., Clarkson College.
Rowe, Jos. E., Clarkson College.
Weiss, H. A., Clarkson College.
Wilson, F. C., Clarkson College.

Poughkeepsie.—Flowers, A. E.

Rochester.—Conley, W. J., Univ. of Rochester.
Evans, F. H., Mechanics Inst.
Gavett, Jos. W., Univ. of Rochester.
Leet, H. W., Univ. of Rochester.
Randall, J. A., Mechanics Inst.

Schenectady.—Alger, P. L., General Electric Co.
Berg, E. J., Union College.
Boring, M. M., General Electric Co.
Hall, R. A., Union College.
Herrick, R. M., Union College.
Hoadley, A., Union College.
Howard, A., General Electric Co.
Means, L. H., General Electric Co.
Pfeif, G. H., General Electric Co.
Sayre, M. F., Union College.
Stevens, A. C., General Electric Co.
Stone, Chas. W., General Electric Co.
Taylor, W. C., Union College.
Vedder, J. N., Union College.

Syracuse.—Aldrich, W. S., 137 Buckingham Ave.
Berry, E. F., Syracuse Univ.
Blackburn, H. W., Syracuse Univ.

Brightman, C. L., Syracuse Univ.
Church, E. F., Syracuse Univ.
Graham, Wm. P., Syracuse Univ.
Howe, L. B., Syracuse Univ.
Mitchell, Louis, Syracuse Univ.
Porter, R. A., Syracuse Univ.
Salathe, Albert, Syracuse Univ.
Sarason, S. D., Syracuse Univ.
Taylor, Wm. E., Syracuse Univ.
Troy.—Baker, Ray P., Rensselaer Poly. Inst.
Cary, E. R., Rensselaer Poly. Inst.
Chillman, E. F., Rensselaer Poly. Inst.
Clark, L. W., Rensselaer Poly. Inst.
Crockett, Chas. W., Rensselaer Poly. Inst.
Devine, J. J., Rensselaer Poly. Inst.
Dibert, H. M., 514 Fulton St.
Fairfield, J. G., Rensselaer Poly. Inst.
Fessenden, E. A., Rensselaer Poly. Inst.
Frey, E. A., Rensselaer Poly. Inst.
Palsgrove, Grant K., Rensselaer Poly. Inst.
Phelps, G. M., Rensselaer Poly. Inst.
West Point.—Carter, C. C. Quarters 39.
Fenton, C. L., Military Academy.
White Plains.—Brandes, F. C., Mamaroneck Road.
Yonkers.—Hodge, C. A., Tech. H. S.
Wadsworth, J. E., American Bridge Co.
Snow, C. H., 12 Lake Ave.

NORTH CAROLINA

Chapel Hill.—Bailey, N. P., Univ. of N. Car.
Baity, H. G., Univ. of N. Car.
Hickerson, T. F., Univ. of N. Car.
Hobbs, A. W., Univ. of N. Car.
Hoefer, E. G., Univ. of N. Car.
Howell, A. C., Univ. of N. Car.
Miller, W. J., Univ. of N. Car.
Smith, G. W., Univ. of N. Car.
Winkler, E. W., Univ. of N. Car.
Durham.—Bird, H. C., Duke Univ.
Hall, W. H., Duke Univ.
Mathews, R. T., Duke Univ.
Schealer, S. R., Duke Univ.
Seeley, W. J., Duke Univ.
Wilbur, R. S., Duke Univ.
Wilson, R. N., Duke Univ.
State College Station, Raleigh.—Brown, Wm. H., Jr., State College.
Fisher, H. A., State College.
Foster, J. M., State College.
Fouraker, R. S., State College.
Greaves-Walker, A. F., State College.
Harrelson, J. W., State College.
Harrison, T. P., State College.
Johnson, T. S., State College.
Kolb, R. P., State College.
Mock, H. L., State College.
Randolph, E. E., State College.
Satterfield, H. E., State College.
Shaw, H. B., Eng. Exp. Sta.
Vaughan, L. L., State College.
Wheeler, F. B., State College.
Whitener, J. S., State College.

NORTH DAKOTA

Fargo.—Dolve, R. M., Agri. College.
Rush, H. S., Agri. College.
Smith, Waldo E., State College.
Van Dyke, J. R., Agri. College.
Grand Forks.—Boyd, Alfred, Univ. of N. D.
Boyd, Alfred, Univ. of N. D.
Chandler, E. F., Univ. of N. D.
Jenkins, D. R., Univ. of N. D.

OHIO

Ada.—Elbin, G. H., Ohio. No. Univ.
Campbell, I. S. C., Ohio No. Univ.
Needy, J. A., Ohio No. Univ.
Akron.—Ayer, F. E., Univ. of Akron.
Bulger, J. W., Univ. of Akron.
Durst, Ross C., Univ. of Akron.
Gilmour, W. A., Univ. of Akron.
Griffin, F. S., Univ. of Akron.
Robinson, L. L., 430 Woodland Ave.
Smith, P. C., Univ. of Akron.
Upp, C. R., Univ. of Akron.
Walther, J. T., Univ. of Akron.
Wilson, E. R., Univ. of Akron.
Ashtabula.—Chiles, G. S.
Athens.—Atkinson, A. A., Ohio Univ.
Cincinnati.—Burns, G. W., Univ. of Cin.
Faig, J. T., Ohio Mechanics Inst.
Frey, G. J., Ohio Mechanics Inst.
Joerger, C. A., Univ. of Cin.
Kersten, H. J., Univ. of Cin.
Kopp, C. F., Tuxedo Terrace.
Luther, H. B., Univ. of Cin.
Muncy, V. E., Mech. Inst.
Park, C. W., Univ. of Cin.
Schneider, Herman, Univ. of Cin.
Wabnitz, U. S., Univ. of Cin.
Circleville.—Anderson, R. M.
Cleveland.—Ault, E. S., Case School.
Barnes, G. E., Case School.
Boylston, H. M., Case School.
Churchill, H. D., Case School.
Coppersmith, C. W., Case School.
Danforth, R. H., Case School.
Dates, H. B., Case School.
Davis, W. C., Fenn College.
Douglas, M. S., Case School.
Dyble, J. H., Case School.
Eddy, C. L., Case School.
Fabel, D. C., Fenn College.
Focke, T. M., Case School.
Francis, C. W., Fenn College.
Hales, V. D., Fenn College.
Hunt, L. W., Fenn College.
Justin, E. M., Case School.
Margolis, Jos., Fenn College.
Martin, J. R., Case School.
McCullough E. W., Case School.
McIlhenny, I. F., Fenn College.
Miller, D. C., Case School.
Neff, F. H., Case School.
Nichols, J. C., Fenn College.
Nichols, M. E., Fenn College.
Nudd, W. E., Case School.
Plummer, F. L., Case School.

Putnam, R. C., Case School.
Reed, K. W., 1839 Wymore Rd., E.
Robinson, M. B., Fenn College.
Stone, O. M., Case School.
Thomas, C. F., Case School.
Thompson, Karl O., Case School.
Trofimov, L. A., 2700 E. 79th St.
Tuve, G. L., Case School.
Veazey, W. R., Case School.
Vose, F. H., Case School.
Ward, Samuel, Fenn College.
Wickenden, W. E., Case School.
Wright, M. B., Case School.

Columbus.—Beitler, S. R., State Univ.
Bibber, H. W., State Univ.
Blake, Fred C., State Univ.
Bole, G. A., State Univ.
Boyd, J. E., State Univ.
Bradford, J. N., State Univ.
Brown, A. I., State Univ.
Bucher, Paul, State Univ.
Caldwell, F. C., State Univ.
Carruthers, J. L., State Univ.
Clark, E. C., State Univ.
Coddington, E. F., State Univ.
Cooper, C. D., State Univ.
Demorest, D. J., State Univ.
Dreese, E. E., State Univ.
Dumble, W. R., State Univ.
Eno, F. H., State Univ.
Everitt, W. L., State Univ.
Folk, S. B., State Univ.
French, T. E., State Univ.
Harbarger, Sada A., State Univ.
Harder, O. E., Battelle Inst.
Hershey, A. W., 495 W. 7th Ave.
Hitchcock, E. A., State Univ.
Jones, L. D., State Univ.
Judd, Horace, State Univ.
Knight, W. A., State Univ.
Koffolt, J. H., State Univ.
Lehoczky, P. N., State Univ.
McCaughey, W. J., State Univ.
Magruder, Wm. T., State Univ.
Marker, Jas R., 510 Hartman Bldg.
Marquis, F. W., State Univ
Moffat, G. N., State Univ.
Morris, C. T., State Univ.
Morrison, P., State Univ.
Nold, H. E., State Univ.
Norman, Carl A., State Univ.
O'Rourke, E. V., State Univ.
Ott, P. W., State Univ.
Paffenbarger, R. S., State Univ.
Powell, R. W., State Univ.
Prior, J. C., State Univ.
Rickley, O. D., State Univ.
Roberts, C. P., State Univ.
Russ, J. M., State Univ.
Shank, J. R., State Univ.
Sherman, C. E., State Univ.
Stinson, K. W., State Univ.
Tang, K. Y., State Univ.
Turnbull, W. D., State Univ.
Weaver, J. H., State Univ.
Weed, J. M., State Univ.
Williams, O. E., State Univ.
Withrow, J. R., State Univ.
Younger, John, State Univ.

Cuyahoga Falls.—Babbitt, A. B.

Dayton.—Belz, C. J., Univ. of Dayton.
Grandy, M. B., Univ. of Dayton.
Hofman, G. A., St. Mary's College.
Rappel, U. J., Univ. of Dayton.
Schad, B. T., Univ. of Dayton.
Williams, F. W., Univ. of Dayton.

Granville.—Ebaugh, W. C., Dennison Univ.
Greenshields, B. D., Dennison Univ.

Ivorydale.—Bergen, H. B.

Middletown.—Doty, L. D., 403 Alameda.
Rosing, A. S., 1315 S. Main St.

Springfield.—Puchstein, A. F., Robbins & Myers Co.
Thomas, R. P., 475 E. Northern Ave.

Toledo.—Brandeberry, J. B., Toledo Univ.
Brown, W. F., Toledo Univ.
Nash, P. C., Toledo Univ.
Palmer, D. M., Toledo Univ.
Reese, R. C., Toledo Univ.
Scott, L. C., Toledo Univ.
Smith, W. S., Toledo Univ.
Zarobsky, I. F., Toledo Univ.

Warren.—Foster, E. S., Packard Electric Co.

Yellow Springs.—Fahy, F. E.
Lloyd, T. C., Antioch College.
Morgan, A., Antioch College.

OKLAHOMA

Norman.—Brookes, J. F., Univ. of Okla.
Dawson, E. F., Univ. of Okla.
Dodge, H. L., Univ. of Okla.
Farrar, C. L., Univ. of Okla.
Felgar, Jas. H., Univ. of Okla.
Fisher, B. A., Univ. of Okla.
Matlock, J. R., Univ. of Okla.
Maxson, G. R., Univ. of Okla.
Tappan, F. G., Univ. of Okla.
Wolfard, N. E., Univ. of Okla.

Stillwater.—Baird, R. W., A. & M. College.
Baker, E. C., A. & M. College.
Donnell, P S., A. & M. College.
Drummond, G. B., A. & M. College.
Flanders, R. L., A. & M. College.
Hunt, D., A. & M. College.
Kent, H. L., A. & M. College.
Leonard, C. M., A. & M. College.
Maleev, V. L., A. & M. College.
Naeter, A., A. & M. College.
Saxton, R. G., A. & M. College.
Stapley, E. R., A. & M. College.
Thuesen, H. G., A. & M. College.

Tulsa.—Anderson, Ed., Univ. of Tulsa.

OREGON

Corvallis.—Albert, A. L., Agri. College.
Baender, F. G., Agri. College.
Dearborn, R. H., Agri. College.
Glenn, B., State College.
Griffith, J. R., Agri. College.
Holcomb, G. W., Agri. College.
Keevil, C. S., Agri. College.
Martin, W. H., Agri. College.
McMillan, F. O., Agri. College.

Mockmore, C. A., Agri. College.
Nichols, B. H., Agri. College.
Othus, J. C., Agri. College.
Phillips, M. C., Agri. College.
Summers, R. E., Agri. College.
Waterman, I. F., Agri. College.
Willey, E. C., Agri. College.
Wooster, L. F., Agri. College.

PENNSYLVANIA

Allentown.—Oehrli, John W.
Bethlehem.—Beaver, J. L., Lehigh Univ.
Becker, S. A., Lehigh Univ.
Bidwell, C. C., Lehigh Univ.
Butterfield, T. E., Lehigh Univ.
Connelly, J. R., Lehigh Univ.
Hibshman, N. S., Lehigh Univ.
Jennings, B. H., Lehigh Univ.
Klein, A. W., Lehigh Univ.
Larkin, F. V., Lehigh Univ.
Luce, A. W., Lehigh Univer.
Miller, B. L., Lehigh Univ.
Payrow, H. G., Lehigh Univ.
Reynolds, J. B., Lehigh Univ.
Richard, C. R., Lehigh Univ.
Seyfert, S. S., Lehigh Univ.
Stoughton, Bradley, Lehigh Univ.
Stuart, M. C., Lehigh Univ.
Sutherland, Hale, Lehigh Univ.
Ullmann, H. M., Lehigh Univ.
Canton.—Taylor, F. D.
Easton.—Benner, J. A., Lafayette College.
Eaton, P. B., Lafayette College.
Fernald, E. M., Lafayette College.
Hatch, D. A., Lafayette College.
Kennard, H. J., Lafayette College.
King, M., Lafayette College.
Lohr, W. S., Lafayette College.
Merrick, C. M., Lafayette College.
Perry, Lynn, Lafayette College.
Plank, W. B., Lafayette College.
Rice, P. P., Lafayette College.
Rockwell, E. H., Lafayette College.
Roehrig, G. F., Lafayette College.
Slantz, F. W., Lafayette College.
Smith, F. W., Lafayette College.
Witmer, L. F., Lafayette College.
East Pittsburgh.—Coler, C. S., W. E. & M. Co.
Dudley, A. M., W. E. & M. Co.
Jablow, Chas., W. E. & M. Co.
Roberts, E. B., W. E. & M. Co.
Rugg, W. S., W. E. & M. Co.
Erie.—Rountree, H. C., 808 Commerce Bldg.
Wells, E. D., 1008 Weschler Ave.
Gettysburg.—Clutz, F. H., Gettysburg College.
Reen, C. G., Gettysburg College.
Grove City.—Mitchell, G. I.
Haverford.—Holmes, C. W., Haverford College.
Rittenhouse, L. H., Haverford College.
Johnstown.—Anderson, C. A., Univ. of Pgh.
Lancaster.—Fry, H. M., Franklin & Marshall College.
Lewisburg.—Burpee, F. E., Bucknell Univ.
Drum, M. L., Bucknell Univ.
Gardner, R. A., Bucknell Univ.
Griffith, D. M., Bucknell Univ.
Hall, V. B., Bucknell Univ.
Irland, G. A., Bucknell Univ.
Kunkle, G. M., Bucknell Univ.
Miller, J. B., Bucknell Univ.
Ogburn, S. C., Bucknell Univ.
Rhodes, W. K., Bucknell Univ.
Shaffer, H. A., Bucknell Univ.
New Kensington.—Hoglund, G. O.
Philadelphia.—Berry, H. C., Univ. of Penna.
Billings, J. Harland, Drexel Inst.
Bowman, H. L., Drexel Inst.
Bowman, H. T., Univ. of Penna.
Coogan, C. H., Univ. of Penna.
Cooke, M. L., 1520 Locust St.
Crofoot, G. E., Univ. of Penna.
Disque, R. C., Drexel Inst.
Fernald, R. H., Univ. of Penna.
Fry, H. P., Univ. of Penna.
Grandlienard, E. T., Univ. of Pa.
Gulick, L. N., Univ. of Penna.
Hamdi, A. F., 1429 Walnut St.
Hosted, E. G., Drexel Inst.
Kapp, C. A., Drexel Inst.
Kavanaugh, W. H., Univ. of Penna.
Kolbe, P. R., Drexel Inst.
Leonard, S. J., Drexel Inst.
Lewis, J. F., 505 Brinton St., Germantown.
Pender, Harold, Univ. of Penna.
Prior, J. A., Univ. of Pa.
Repscha, A. H., Drexel Inst.
Stevens, W. J., Drexel Inst.
Wilson, B. J., Leeds & Northrup Co.
Witmer, F. P., Univ. of Penna.
Pittsburgh.—Ahlquist, R. W., Univ. of Pgh.
Baker, T. S., Carnegie Inst. Tech.
Bashioum, H. C., Univ. of Pgh.
Bishop, F. L., Univ. of Pgh.
Black, R. M., Univ. of Pgh.
Blaisdell, A. H., Carnegie Inst. Tech.
Bowman, J. G., Univ. of Pgh.
Critchfield, C. L., Univ. of Pgh.
Dennison, B. C., Carnegie Inst. Tech.
Dent, J. A., Univ. of Pgh.
Diefendorf, A., Univ. of Pgh.
Dyche, H. E., Univ. of Pgh.
Dysart, P. M., Schenley H. S.
Edgar, R. F., Univ. of Pgh.
Endsley, L. E., Univ. of Pgh.
Frocht, M. M., Carnegie Inst. Tech.
Goodale, S. L., Univ. of Pgh.
Gorham, R. C., Univ. of Pgh.
Guild, L. R., Carnegie Inst. Tech.
Hallock, J. W., Univ. of Pgh.
Hobe, J. W., Carnegie Inst. Tech.
Holbrook, E. A., Univ. of Pgh.
Hower, H. S., Carnegie Inst. Tech.
Ihrig, R. M., Carnegie Inst. Tech.
James, J. H., Carnegie Inst. Tech.
Jewett, A. C., Carnegie Inst. Tech.
Jones, W. B., Univ. of Pgh.
Jones, W. N., Carnegie Inst. Tech.
Kemler, Emory, Univ. of Pgh.

Lamble, Jos. S., Concrete Products Co.
McCandliss, L. C., Univ. of Pgh.
McClelland, E. H., Carnegie Library.
McCullough, F. M., Carnegie Inst. Tech.
McCully, H. M., Carnegie Inst. Tech.
McIntyre, L. W., 6630 Woodwell St.
McKenry, Nell, Univ. of Pgh.
Nettleton, E. B., Carnegie Inst. Tech.
Riggs, Norman C., Carnegie Inst. Tech.
St. Peter, W. N., Univ. of Pgh.
Stanton, Chas. B., Carnegie Inst. Tech.
Thomas, H. A., Carnegie Inst.
Tracy, S. J., Univ. of Pgh.
Trinks, W., Carnegie Inst. Tech.
Wadsworth, F. L. O., Drawer 1, East Liberty Sta.
Whited, E. W., 5639 Wilkins Ave.
Work, W. R., Carnegie Inst. Tech.

Scranton.—Arduser, L. P.
Carpenter, D. E., International Correspondence School.
Farnham, G. W., International Correspondence School.

Smethport.—Coahran, J. M.

State College.—Allen, C. L., State College.
Bordner, E. R., State College.
Bullinger, C. E., State College.
Doggett, L. A., State College.
Doolittle, J. S., State College.
Everett, H. A., State College.
Govier, C. E., State College.
Harlan, O. K., State College.
Harris, C. L., State College.
Holt, C. B., State College.
Hummel, J. O. P., State College.
Keller, J. O., State College.
Kinsloe, C. L., State College.
Larkins, J. T., State College.
Light, J. J., State College.
Markle, D. L., State College.
Minshall, R. E., State College.
Nesbitt, R. B., State College.
Neyhart, A. E., State College.
Owens, F. W., State College.
Powell, A. P., State College.
Rhodes, L. S., State College.
Rice, P. X., State College.
Sackett, R. L., State College.
Shattuck, H. B., State College.
Stavely, Earl B., State College.
Stewart, F. C., State College.
Tebo, F. A., State College.
Thayer, H. R., State College.
Tobias, A. L., State College.
Walker, E. D., State College.
Whitehead, L. W., State College.
Zerban, A. H., State College.

Swarthmore.—Bourdelais, G. A., Swarthmore College.
Fussell, L., Swarthmore College.
Jenkins, H. M., Swarthmore College.
Lilly, S. B., Swarthmore College.
Matthews, J. J., Swarthmore College.
Thatcher, C. G., Swarthmore College.

Villanova.—Bueche, H. S.
Humphrey, C. T., Villanova College.

Wilkes-Barre.—Schuyler, W. H. Bucknell Univ. Jr. College.

Wyomissing.—Harper, A. C.

PORTO RICO

Mayaguez.—Duffey, C. F., Box 143.
Mota, C. C., Univ. of P. R.
Stefani, Luis, Univ of P. R.
Whittemore, J. S., Univ. of P. R.

RHODE ISLAND

Kingston.—Anderson, Wm., State College.
Billmyer, C. D., State College.
Brown, R. E., State College.
Randolph, J. R., State College.
Wales, R. L., State College.

Providence.—Benford, W. R., Brown Univ.
Berard, S. J., Brown Univ.
Bliss, Z. R., Brown Univ.
Bohl, L. T., Brown Univ.
Hall, Jas. A., Brown Univ.
Hill, J. E., Brown Univ.
Kenerson, W. H., Brown Univ.
Kistler, P. N., Brown Univ.
Tompkins, F. N., Brown Univ.
Watson, A. E., Brown Univ.

SOUTH CAROLINA

Charleston.—Thomas, R. G., 19 Charles St.

Clemson College.—Clarke, E. L., Clemson College.
Curtis, D. D., Clemson College.
Earle, S. B., Clemson College.
Fernow, B. E., Clemson College.
Glenn, H. E., Clemson College.
Klugh, W. W., Clemson College.
Rhodes, S. R., Clemson College.
Sheldon, D. C., Clemson College.
Shenk, D. H., Clemson College.
Tingley, F. T., Clemson College.

Columbia.—Ball, T. F., Univ. of S. C.
Johnson, R. G., Univ. of S. C.
Sumwalt, R. L., Univ. of S. C.

SOUTH DAKOTA

Brookings.—Aldrich, B. M., State College.
Blodgett, H. B., State College.
Brookman, H. E., State College.
Carter, H. S., State College.
Crothers, H. M., S. D. State College.
Gamble, W. H. State College.
Lowe, W. S., State College.
Strate, J. T., State College.

Rapid City.—Beebe, G. A., School of Mines.
Bond, G. W., School of Mines.
Clark, E. E., School of Mines.
Dake, E. D., School of Mines.
Kammerman, J. O., Sch. of Mines.
Karsten, A., School of Mines.
O'Harra, C. C., School of Mines.

Walkling, W., School of Mines.
Walton, G., School of Mines.
Watson, C. G., School of Mines.
Vermillion.—Akeley, L. E., Univ. of S. D.
Brackett, B. B., Univ. of S. D.
Davidson, M. W., Univ. of S. D.
Gotaas, H. B., Univ. of S. D.

TENNESSEE

Cleveland.—Blake, D.
Cookeville.—Barnard, N. H., Poly. Inst.
Henderson, J. M., Poly. Inst.
Knoxville.—Carpenter, E. L., Univ. of Tenn.
Tomlinson, G. E., 1717 Laurel St.
Nashville.—Brown, W. B., Vanderbilt Univ.
Coolidge, W. A., Vanderbilt Univ.
Lewis, F. J., Vanderbilt Univ.
Slack, F. G., Vanderbilt, Univ.

TEXAS

Arlington.—McMurtray, H. D., Agri. College.
Smith, F. M., Agri. College.
Austin.—Bantel, E. C. H., Univ. of Texas.
Benedict, H. Y., Univ. of Texas.
Correll, J. A., Univ. of Texas.
Degler, H. E., Univ. of Texas.
Eckhardt, C. J., Univ. of Texas.
Ferguson, P. M., Univ. of Texas.
Hammond, R. J., Box 184.
McLaurin, B., Univ. of Texas.
Ramsay, J. W., Univ. of Texas.
Short, B. E., Univ. of Texas.
Taylor, T. U., Univ. of Texas.
Vallance, Alex, Univ. of Texas.
College Station.—Bagley, J. B., A. & M. College.
Bolton, F. C., A. & M. College.
Brewer, A. V., A. & M. College.
Crawford, Chas. W., A. & M. College.
Dillingham, H. C., A. & M. College.
Downard, R. W., A. & M. College.
Faires, V. M., A. & M. College.
Fleming, D. W., A. & M. College.
Fouraker, L. L., A. & M. College.
Giesecke, F. E., A. & M. College.
Glenn, E. W., A. & M. College.
Grinter, L. E., A. & M. College.
Hughes, M. C., A. & M. College.
Markle, E. W., A. & M. College.
McCarter, W. W., A. & M. College.
Mitchell, Alva, A. & M. College.
Orr, J. A., A. & M. College.
Puryear, Chas., A. & M. College.
Richey, J. J., A. & M. College.
Scoates, D., A. & M. College.
Silvey, O. W., A. & M. College.
Spencer, H. C., A. & M. College.
Steel, E. W., A. & M. College.
Summey, Geo., Jr., A. & M. College.
Thornton, M. K., A. & M. College.
Wingren, R. M., A. & M. College.
Dallas.—Campbell, R. D., So. Methodist Univ.
Flath, E. H., So. Methodist Univ.
Johnson, W. D., Box 2833
Slaymaker, R. R., So. Meth. Univ.
El Paso.—Durkee, P. W., College of Mines.
Houston.—Burr, A. H., Rice Inst.
Johnson, C. A., Great So. Life Bldg.
Miller, J. M., Rice Inst.
Pound, J. H., Rice Institute.
Ryon, L. B., Rice Inst.
Uhrig, L. V., Rice Inst.
Waters, J. S., Rice Inst.
Jefferson.—Braden, C.
Kingsville.—Peurifoy, R. L., College of Arts & Industries.
Straiton, A. W., College, Arts & Ind.
Lubbock.—Adams, O. V., Tech. College.
Brandt, C. D., Tech. College.
Doughtie, V. L., Tech. College.
Godeke, H. F., Tech. College.
Hardgrave, J. C., Tech. College.
Helwig, W. F., Tech. College.
Lewis, R. E., Tech. College.
Murdough, J. H., Tech. College.
Perryman, C. C., Tech. College.
Street, W. E., Tech. College.
Svensen, C. L., Tech. College.
Stephenville.—Doremus, H. C., Agri. College.

UTAH

Logan.—Kepner, H. M., Agri. College.
West, R. B., Agri. College.
Salt Lake City.—Adams, T. C., Univ. of Utah.
Hance, J. H.
Hogan, M. B., Univ. of Utah.
Ketchum, R. B., Univ. of Utah.
Lewis, R. S., Univ. of Utah.
Lyon, D. A., Univ. of Utah.
Merrill, Jos. F., 47 E. So. Temple St.
Taylor, A. L., 258 Univ. St.

VERMONT

Bellows Falls.—Ruggles, S. L.
Burlington.—Buchanan, R. O., Univ. of Vt.
Bullard, J. A., Univ. of Vt.
Butterfield, A. D., Univ. of Vt.
Dickinson, L. P., Univ. of Vt.
Eckhard, G. F., Univ. of Vt.
Fulton, W. T., Univ. of Vt.
Lucarini, G. B., Univ. of Vt.
Millington, H. G., Univ. of Vt.
Puffer, L. B., Univ. of Vt.
Shorey, L. F., Univ. of Vt.
Thomas, Evan, Univ. of Vt.
Northfield.—Dix, L. E., Norwich Univ.
Emerson, W. D., Norwich Univ.
Winslow, A. E., Norwich Univ.
North Ferrisburg.—Breckenridge, L. P., The Brackens.

VIRGINIA

Blacksburg.—Barlow, W. E., Poly. Inst.
Begg, R. B. H., Poly. Inst.
Castleman, J. R., Poly. Inst.

Conner, N. W., Poly. Inst.
De La Barre, C. F., Poly. Inst.
Ellis, W. T., Poly. Inst.
Grenoble, H. S., Poly. Inst.
Jones, J. B., Poly. Inst.
Newman, C. M., Poly. Inst.
Norris, E. B., Poly. Inst.
Norton, P. T., Poly. Inst.
O'Shaughnessy, Louis, Poly. Inst.
Pletta, D. H., Poly. Inst.
Pritchard, S. R., Poly. Inst.
Rasche, W. H., Poly. Inst.
Sette, F. J., Poly. Inst.
Hopewell.—McCann, W. R.
Lexington.—Anderson, J. A., Military Inst.
Anderson, S. W., Military Inst.
Heflin, S. M., Military Institute.
Houston, Hale, Box 422.
Mallory, Francis, Military Inst.
Purdie, K. S., Military Inst.
Trinkle, R. J., Military Inst.
Newport News.—Bailey, C. F.
Norfolk.—Herrington, W. F.
University.—Bird, R. M., Univ. of Va.
Brown, F. L., Univ. of Va.
Hesse, H. C., Univ. of Va.
Hitchcock, L. B., Univ. of Va.
Johnson, H. P., Univ. of Va.
Macconochie, A. F., Univ. of Va.
Miller, Jas. S., Univ. of Va.
Morse, F. T., Univ. of Va.
Newcomb, J. L., Univ. of Va.
Oglesby, E. J., Univ. of Va.
Rodman, W. S., Univ. of Va.
Vaughan, J. L., Univ. of Va.

WASHINGTON

Pullman.—Candee, F. W., State College.
Carpenter, H. V., State College.
Drucker, A. E., State College.
Osburn, O. E., State College.
Parker, E. B., State College.
Phelps, H. E., State College.
Sloan, R. D., State College.
Snyder, M. K., State College.
Welch, F. W., State College.
Seattle.—Chittenden, H. M., Univ. of Wash.
Collier, I. L., Univ. of Wash.
Daniels, Joseph, Univ. of Wash.
Farquharson, F. B., Univ. of Wash.
Hall, Amy V., Univ. of Wash.
Hawthorn, G. E., Univ. of Wash.
Jensen, A., Univ. of Wash.
Magnusson, C. E., Univ. of Wash.
Miller, A. L., Univ. of Wash.
More, C. C., Univ. of Wash.
Roberts, Milnor, Univ. of Wash.
Tyler, R. G., Univ. of Wash.
Tymstra, S. R., Univ. of Wash.
Warner, F. M., Univ. of Wash.
Wilcox, E. R., Univ. of Wash.
Wilson, Geo. S., Univ. of Wash.
Tacoma.—Pangborn, R. J.
Yakima.—Richter, A. W., Price Mfg. Co.

West Virginia

Huntington.—Bragonier, A. T., Marshall College.
Montgomery.—Maclin, E. S., State College.
Raub, L. G.
Morgantown.—Amidon, L. L., W Va. Univ.
Boomsliter, G. P., W. Va. Univ.
Davis, G. P., W. Va. Univ.
Gill, J. H., W. Va. Univ.
Hodge, W. W., W. Va., Univ.
Jones, C. R., W. Va. Univ.
Lawall, C. E., W. Va. Univ.
White, B. S., W. Va. Univ.

WISCONSIN

Appleton.—Trezise, F. W., Lawrence College.
Madison.—Bennett, Edw., Univ. of Wis.
Dawson, F. M., Univ. of Wis.
Dorrans, J. M., Univ. of Wis.
Elliott, Benj. G., Univ. of Wis.
Hansen, E. T., Univ. of Wis.
Hartenberg, R. S., Univ. of Wis.
Hougen, O. A., Univ. of Wis.
Janda, H. F., Univ. of Wis.
Jansky, C. M., Univ. of Wis.
Kommers, J. B., Univ. of Wis.
Kowalke, Otto L., Univ. of Wis.
Larson, G. L., Univ. of Wis.
March, H. W., Univ. of Wis.
Maurer, E. R., Univ. of Wis.
Mead, D. W., Univ. of Wis.
Millar, A. V., Univ. of Wis.
Nelson, D. W., Univ. of Wis.
Orth, H. D., Univ. of Wis.
Price, J. R., Univ. of Wis.
Pulver, H. E., Univ. of Wis.
Ragatz, R. A., Univ. of Wis.
Roark, R. J., Univ. of Wis.
Tracy, G. F., Univ. of Wis.
Turneaure, F. E., Univ. of Wis.
Van Hagan, L. F., Univ. of Wis.
Watson, J. W., Univ. of Wis.
Watts, O. P., Univ. of Wis.
Wendt, K. F., Univ. of Wis.
Wilson, G. C., Univ. of Wis.
Wilson, L. A., Univ. of Wis.
Withey, M. O., Univ. of Wis.
Milwaukee.—Baldwin, L. S., 619 State St.
Bliss, W. D., Tool Co.
Douglas, J. F. H., Marquette Univ.
Kartak, F. A., Marquette Univ.
Krotzer, F. W., 442 Greenwich Ave.
Scrimshaw, S., Marquette Univ.
Wiepking, C. A., 3501 Clybourn St.
Oshkosh.—Grant, R. J., Teachers College.
Walsh, F. W., Teachers College.

WYOMING

Caspar.—Purcell, C. G.
Eden.—Grandy, L. S.
Laramie.—Goodrich, R. D., Univ. of Wyo.
Hunt, S. P., Univ. of Wyo.
Person, H. T., Univ. of Wyo.
Rhoads, R. L., Univ. of Wyo.
Sechrist, G. H., Univ. of Wyo.
Sink, R. S., Univ. of Wyo.
Trueblood, R. O., Univ. of Wyo.

BELGIUM

Ghent.—VanDen Meersche, A. J., Univ. of Ghent.

BRAZIL

Sao Paulo.—Freire, V. S., Poly. School.

CHINA

Shanghai.—Ely, J. A., St. John's Univ.

Tientsin.—Mao, T. E., Pei-Yang Univ.

ENGLAND

London.—Spooner, H. J., Poly. Sch of Engineering.

Manchester.—Fleming, A. P. M., Metropolitan-Vickers Elec. Co.

FRANCE

Nice.—Reber, L. E.

INDIA

Bombay.—Gokhale, G. V., C. E. College.

Jamshedpur.—Bose, S. N., Tata Co., Ltd.

ITALY

Milano.—Fantoli, G., Politecnico.

JAPAN

Tokyo.—Hirota, S., 22 Denyen-Chofu.

MEXICO

Tacubaya.—Bernard, M., Gelati 17.

POLAND

Lwow.—Aulich, W. M., Polytechnic.

RUSSIA

Leningrad.—Chatelain, M., Poly. Inst.

SYRIA

Beirut.—Jurdak, M., American Univ.

TURKEY

Constantinople.—Murat, S., Robert College.
Sciplo, L. A., Robert College.
Sheiry, E. S., Robert College.
Tubini, B. A., Robert College.

ADMINISTRATORS—EDUCATIONAL

Akeley, L. E.
Anderson, D. S.
Anthony, G. C.
Appleby, W. R.
Arduser, L. P.
Armsby, H. H.
Ayer, F. E.

Bacon, G. P.
Bailey, Floyd
Baity, H. G.
Baker, T. S.
Barker, J. W.
Barney, E. S.
Barrett, S. K.
Bauer, W. C.
Benedict, H. Y.
Bernard, Miguel
Biegler, P. S.
Bishop, F. L.
Bissell, G. W.
Bliss, C. P.
Boardman, H. S.
Bolton, F. C.
Bowman, John G.
Boyer, Aurelien
Brigman, B. M.
Brock, R. W.
Brooks, J. P.
Bro. A. Leo
Bullock, W. E.
Burns, G. W.
Bush, Vannevar
Butler, G. M.
Butler, H. L.

Capen, S. P.
Carey, R. F.
Carpenter, D. E.
Carpenter, H. V.
Carr, A. R.
Carter, C. C.
Case, G. W.
Chandler, E. F.
Chatburn, G. R.
Clements, G. R.
Clifford, H. E.
Cloke, Paul
Cobleigh, W. M.
Colston, A. L.
Compton, Karl T.
Coolbaugh, M. F.
Cooley, M. E.
Crawford, I. C.
Crothers, H. M.
Cullimore, A. R.

Daggett, P. H.
Davies, C. E.
Davis, G. J.
Davis, H. L.
Davis, H. N
Davis, Roland P.
Derleth, Chas.
Diederichs, Herman
Diemer, Hugo
Dirks, Henry B.
Disque, R. C.
Distler, T. A.
Dobbs, F. E.
Dodge, H. L.
Doherty, R. E.
Dolve, R. M.
Donahue, Thos. L.
Donnell, P. S.
Dorroh, J. H.
Drucker, A. E.

Earle, Ralph
Earle, S. B.
Eckhardt, G. F.
Edmands, S. S.
Ell, Carl S.
Elliott, E. C.
Ely, John A.
Emerson, L. A.
Evans, F. H.
Evans, H. S.

Faig, J. T.
Fantoli, Guadenzio
Farrell, F. D.
Farris, M. E.
Felgar, J. H.
Fenton, C. L.
Ferguson, O. J.
Fernald, R. H.
Field, F.
Finch, J. W.
Fiske, D. L.
Flath, E. H.
Fleming, B. P.
Focke, T. M.
Freeman, E. H.
Freeman, W. E.
Freundt, C. J.
Frigon, Augustin
Fulton, C. H.
Furman, F. D.

Giesecke, F. E.
Gilmour, W. A.
Gladson, W. N.
Gokhale, G. V.
Good, M. R.
Gough, A. C.
Graham, W. P.
Greene, A. M.
Grenoble, H. S.

Hammond, H. P.
Hance, J. H.
Harrison, J. R.
Heald, H. T.
Henck, G. D.
Henderson, J. M.
Henline, H. H.
Hewitt, C. E.
Hirota, S.
Hitchcock, E. A.
Holbrook, E. A.
Hoover, T. J.
Horner, H. H.
Hotchkiss, Willard E.
Hotchkiss, W. O.
Houchens, J. M.
Howe, C. S.
Hoyt, L. B.
Hume, Alfred

Ihrig, R. M.

Jewett, A. C.
John, W. C.
Johndroe, S. G.
Johnson, C. A.
Jones, C. R.
Jones, W. B.
Jones, Webster N.
Jordan, H. H.

Kapp, C. A.
Kartak, F. A.
Kegerreis, Roy
Keller, A. R.
Keller, J. O.
Ketchum, M. S.
Ketchum, R. B.
Kiernan, C. J.
Kimball, D. S.
Koch, R. L.
Kolbe, P. R.

Langsdorf, A. S.
Lapham, J. R.
Lawall, C. E.
Lawrence, R. E.
Lee, Ed. A.
Leland, O. M.
Lester, O. C.
Lewis, F. J.
Lory, C. A.

Mackenzie, C. J.
Magnusson, C. E.
Mann, C. R.
Mao, T. E.
Marsden, R. R.
Marston, Anson
McCabe, F. T.
McCaustland, E. J
McClelland, E. H.
Meikle, G. S.
Melvin, H. W.
Merrill, G. A.
Merrill, J. F.
Millar, A. V.
Miller, G. B.
Miller, W. J.
Mitchell, C. H.
Mitchell, Louis
Moody, H. W.
Morgan, A. E.
Morgan, J. R.
Mott, W. E.
Moyer, J. A.
Murphy, L. J.

Nash, P. C.
Needy, John A.
Newcomb, J. L.

Nichols, J. C.
Nichols, M. E.
Nightingale, W. E.
Norris, E. B.

O'Harra, C. C.
Oliver, F. J.

Pearson, R. A.
Pender, Harold
Penn, J. C.
Pettee, C. H.
Pettengill, T. E.
Potter, A. A.
Pratt, Charles
Prentice, D. B.
Puryear, Charles

Randall, J. A.
Raymond, H. M.
Reber, L. E.
Rew, Irwin
Rhoads, R. L.
Richards, C. R.
Richmond, A. P.
Robb, R. E.
Roberts, Milnor
Rogers, H. S.
Rood, James T.
Ross David E.
Rowe, J. E.
Russell, W. B.

Sackett, R. L.
Sadler, H. C.
Santo, J. H.
Schneider, Herman
Scipio, L. C.
Seabury, G. T.
Seaton, R. A.
Sexton, F. H.
Shaad, G. C.
Shaw, H. B.
Short, R. L.
Sibley, F. H.
Skene, Frederick
Skiles, W. V.
Sloan, R. D.
Snow, C. H.
Sobey, Albert
Spahr, R. H.
Spencer, R. L.
Steiner, Fr.
Streubel, E. J.
Sullivan, G. L.

Taylor, T. U.
Thomson, F. A.
Thorogood, B. K.
Tryon, J. L.
Tudbury, C. W.
Turneaure, F. E.
Turnbull, J. M.
Turnbull, W. D.
Turrell, A. M.
Tyler, H. W.
Tyler, R. G.

VanLeer, B. R.
Veal, C. B.

Wales, R. L.
Wallace, L. W.
Weed, J. M.
Wells, E. H.
West, R. B.
White, R. A.
White, W. C.
Whited, E. W.
Wickenden, W. E.
Willard, A. C.
Williams, C. C.
Williston, A. L.
Wilmore, J. J.
Wilson, F. C.
Wilson, R. S. L.
Wing, F. H.
Wood, Ben D.

de Zafra, Carlos

ADMINISTRATORS—INDUSTRIAL

Aldrich, W. S.
Alford, L. P.

Babbitt, A. B.
Bacon, G. M.
Bailey, C. F.
Benjamin, C. G.
Bergen, H. B.
Bose, S. N.
Buck, A. M.

Caughey, C. H.
Coburn, Theo.
Colby, W. C.
Coler, C. S.
Collyer, Norman
Crosby, L. S.
Crouch, C. H.

DeLay, F. A.
Deller, R. A.
Dibert, H. M.
Dietz, J. W.
Dooley, C. R.
Doyle, F. B.
Drury, C. W.

Earle, Chester R.
Eshbach, Ovid W.

Farnham, Geo. W.
Fleming, A. P. M.
Flowers, A. E.
Foote, J. H.
Foss, M. M.
Frampton, G. O.
Fry, T. C.

Gilchrist, J. F.

Hall, W. C.
Hamdi, A. F.
Hamilton, E. P.
Hammond, John H.
Hannaford, E. S.
Haskell, L. S. J.
Heany, A. G.
Heffner, R. J.
Herington, G. B.
Herr, E. M.
Hood, O. P.
Howard, Alan

Ives, H. C.

Jackson, John P.
Jewett, F. B.

Lambert, L. S.
Lambie, J. S.
Lewisohn, Sam A.
Long, M. B.

Main, C. T.
McIntyre, L. W.
Means, L. H.
Mills, John
Morey, C. W.
Morss, Everett

Nelson, W. P.
Nordenholt, G. F.

Oehrli, John W.
Osborne, L. A.

Parker, J. C.
Perry, F. G.
Pfeif, G. H.
Pinney, J. C.
Porter, J. F.
Potts, Clyde
Purcell, C. G.

Quigley, L. V.

Rees, R. I.
Richter, A. W.
Ridd, S. J.
Robinson, M. B.
Rorty, M. C.
Rosing, A. S.
Rugg, W. S.
Ruggles, S. L.

Searles, C. L.
Skinkle, J. W.
Smythe, R. E.
Staley, A. C.
Stevens, A. C.
Stillwell, L. B.
Stone, C. W.
Swartz, B. K.

Thomas, G. B.
Thompson, J. S.
Tomlinson, G. E.
Triest, R. M.
Trofimov, L. A.
Turley, O. J.

Vacha, Fred

Wadsworth, J. E.
Wait, J. C.
Walker, Amasa
Walls, J. A.
Weaver, L. H. A.
Weaver, R. R.
Weisiger, K.
Weston, Edward
Wheatley, E. A.
Wiley, W. O.
Wilson, F. W.

Zucrow, M. J.

AERONAUTICS

Akerman, J. D.

Barlow, H. W.
Bevan, Wm. A.
Blaisdell, A. H.

Clousing, L. A.

Daniel, C. M.

Foster, J. M.

Haskins, G. W.
Hoglund, G. O.

Klemin, Alexander
Knowles, R. C.

Merriam, K. G.

Pawlowski, F. W.

Schone, F. P.
Smith, R. H.

Teichmann, F. K.

AGRICULTURAL ENGINEERING

Aitkenhead, Wm.
Ayres, Q. C.

Bainer, Roy
Baird, R. W.
Barger, E. L.
Beresford, H.
Boss, Wm.
Brackett, E. E.
Brunig, M. P.

Davidson, J. B.
Driftmier, R. H.

Fenton, F. C.

Logan, C. A.
Long, J. D.

Marcellus, J. B.

Roe, H. B.

Schwantes, A. J.
Scoates, D.

Walker, H. B.
White, H. B.
Wooley, J. C.
Zink, F. J.

ARCHITECTURE

Blakeslee, B. N.
Bradford, J. N.
Bragg, E. M.

Foster, W. A.

Harris, C. L.

Kimball, A. H.

Larkins, J. T.
Lockard, R. I.

Mann, F. M.

Norton, P. W.

Palmer, C. E.

Stock, O. L.

Sutherland, L. B.

Weigle, Paul
Wilson, B. N.

ASTRONOMY

Boothroyd, S. L.

CERAMICS

Bole, G. A.

Carruthers, J. L.

Greaves-Walker, A. F.

CHEMICAL ENGINEERING

Baker, C. P.
Bashioum, H. C.
Bentley, W. J.
Bradley, J. A.
Bray, John L.
Brown, W. F.

Dixon, Tod G.

Elgin, J. C.
Ernst, R. C.

Hodge, W. W.
Horton, P. M.
Hougen, O. A.
Hunt, L. W.

Jackson, D. D.
Jenness, L. C.

Keevil, C. S.
Koffalt, J. H.
Kowalke, O. L.

Lewis, W. K.
Lorah, J. R.

Mann, C. A.
Mantell, C. L.
McAdams, W. H.
McCann, W. R.
McKee, R. H.
Montillon, G. H.
Montanna, R. E.
Morgan, J. J.

Newman, A. B.
Newton, R. H.

Ogburn, S. C.
Olsen, J. C.

Peffer, H. C.
Phillips, J. B.

Ragatz, R. A.
Randolph, E. E.
Rice, A. C.
Rogers, Allen

Salathe, Albert
Schuyler, W. H.
Shipman, F. M.
Shreve, R. Norris
Stewart, V. T.
Strahan, S. A. S.

Tarr, A. L.
Thornton, M. K.

Vilbrandt, F. C.

Watts, O. P.
White, A. H.
White, John
Withrow, J. R.
Work, L. T.

Zuffanti, S.

CHEMISTRY

Backer, L. H.
Ball, T. R.
Bartow, Edward
Baxter, R. A.
Bird, R. M.
Bivins, C. E.
Boggs, G. H.
Bond, G. W.
Brautlecht, C. A.

Cady, L. C.
Calvert, Sydney

Durkee, F. W.

Eastman, A. S.
Ebaugh, W. C.

Fay, I. W.
Feusse, E. G.

Geisey, P. M.
Gray, J. C.
Guerin, F. J.

Heisig, G. B.

James, J. H.
Johnson, F. M. G.

Karsten, A.
Keyes, D. B.
Kohler, A. S.

Margolis, Jos.

Pond, F. J.

Schommer, J. J.

Ullman, H. M.

Veazey, W. R.
Von Ende, C. L.

Wilson, R. N.

Yates, J. A.

CIVIL ENGINEERING

Abbott, Robinson
Adams, O. V.
Adams, T. C.
Agg, T. R.
Allen, Chester
Allen, C. Frank
Allen, C. M.
Allen, L. N., Jr.
Allison, W. H.
Alvord, Henry B.
Anderson, James A.
Andrews, C. B.

Babcock, John B.
Baird, Charles O.
Bantel, E. C. H.
Barnes, F. A.
Barney, S. E.
Barrows, H. K.
Bass, Frederic
Bates, Onward
Becker, S. A.
Beebe, G. A.
Beggs, R. B. H.
Beggs, G. E.
Belz, C. J.
Benford, W. R.
Bennett. J. G.
Bergman, Elmer O.
Berry, E. F.
Berry, H. C.
Beyer, A. H.
Beyer, E. W.
Bird, H. C.
Bishop, C. T.
Blodgett, H. B.
Blossom, Francis
Boardman, H. P.
Bohl, Leighton
Boon, Leonard F.
Borgquist, E. S.
Bouchard, Harry
Bowler, Edmond W.
Bowman, Harry L.
Boyd, Alfred
Bragonier, A. T.
Brandes, Fred C.
Breed, C. B.
Brinker, R. C.
Brooks, John F.
Brown, C. C.
Brumfield, R. C.
Bulger, John W.
Burden, Harry P.
Burger, W. H.
Burr, Wm. H.
Butler, Joe B.

Callan, J. A. C.
Carpenter, L. G.
Carter, Harold S.
Carter, Ike N.
Cary, Edward R.
Cass, R. T.
Caughey, R. A.
Chittenden, H. M.
Circé, A. deL.
Cissel, J. H.
Clarke, Elwyn L.
Clutz, Frank H.
Codwise, Henry R.
Collier, Ira L.
Conkling, L. D.
Conner, S. L.
Conrad, L. E.
Constant, F. H.
Conwell, W. L.
Coolidge, W. A.
Costa, J. J.
Crawford, W. W.
Critchfield, C. L.
Cross, Hardy
Cummings, H. N.
Curfman, L. E.
Cutler, A. S.

Dake, E. D.
Davis, H. E.
Davis, R. E.

Dell, Geo. H.
Denue, W. R.
Derby, Frank H.
Derickson, Donald
Diefendorf, Adelbert
Dodds, J. S.
Doland, J. J.
Doremus, Hal C.
Doty, L. D.
Douglas, E. C.
Douglas, Malcolm S.
Downing, L. K.
Downing, Roderick
Drum, Martin L.
Duckering, W. E.
Dunstan, G. H.
DuPlantier, D. A.
Durst, Ross C.

Earnest, G. Brooks
Eckel, C. L.
Eddy, C. L.
Edgar, R. F.
Elbin, Guy H.
Emmons, W. J.
Eno, F. H.
Evans, Weston S.
Evinger, M. I.

Fahy, F. E.
Farnham, C. S.
Farquharson, F. B.
Felker, Everett J.
Ferguson, P. M.
Finch, James K.
Fish, J. C. L.
Fitterer, J. C.
Flanders, R. L.
Fleming, Robins
Foss, F. E.
Fox, Fred H.
Fox, Robert M.
Frazier, F. F.
Freel, W. I.
French, A. W.
French, R. D.
Fuller, A. H.
Furr, M. W.

Gardner, R. A.
Garman, H. O.
Garran, F. W.
Garst, H. O.
Gehrig, A. G.
Gilkey, Herbert J.
Glenn, Burdette
Glenn, H. E.
Goodrich, R. D.
Gotaas, H. B.
Gram, L. M.
Gramstorff, Emil A.
Grandlienard, E. T.
Grant, Eugene L.
Greenshields, B. D.
Greve, F. W.
Griffith, D. M.
Griffith, J. R.
Grinter, L. E.

Haertlein, A.
Hales, V. D.
Hall, R. A.
Hall, W. H.
Hanson, T. C.
Harding, G. H.
Harkness, D. H.

Hatt, W. K.
Hawthorn, G. E.
Hazen, John W.
Hendrick, T. K.
Hickerson, T. F.
Hill, J. E.
Hoad, W. C.
Hoadley, A.
Holcomb, G. W.
Holden, C. A.
Hollister, S. C.
Holmberg, Carl H.
Holt, A. H.
Hooper, E. G.
Hope, H. B.
Hoskins, L. M.
Hosmer, Geo. L.
House, E. B.
Houston, Hale
Howard, J. W.
Howe, Jerome W.
Howland, Warren E.
Huntington, W. C.
Hyde, A. L.

Jacoby, H. S.
Jamieson, R. E.
Janda, H. F.
Janssen, A. S.
Jensen, Alfred
Jett, D. B.
Johnson, A. R.
Johnson, C. C.
Johnson, L. J.
Johnson, R. G.
Jones, J. O.
Judd, Horace

Keim, P. F.
Kelton, Frank C.
Kennard, H. J.
Kerekes, F.
Kepner, H. R.
Kesner, H. J.
Kimball, Wm. P.
King, E. E.
King, H. W.
Kittredge, Ray B.
Knight, Arthur J.
Krefeld, W. J.

Lambert, B. J.
Leavitt, Harold W.
Lefavour, Roland W.
Lendall, H. N.
Leonard, S. J.
Lilly, S. B.
Lohr, W. S.
Lommel, George E.
Lowe, T. M.
Luther, H. B.

MacDonald, John
Maney, G. A.
Marin, Jos.
Marker, J. R.
Marx, C. D.
Matheson, Ernest G.
Matlock, J. R.
McCain, D. M.
McCandliss, L. C.
McCormick, R. L.
McCullough, F. M.
McIntosh, W. R.
McLaurin, Banks
Meadowcroft, A. J.

Meserve, G. H.
Mickey, Clark E.
Miller, A. L.
Miller, Hugh
Minshall, Robert E.
Mockmore, C. A.
Moore, G. R.
Moorman, R. B. B.
More, Chas. C.
Morris, C. T.
Morrison, Gilbert
Morrison, I. F.
Morrison, Roger L.
Morse, R. F.
Moser, Chas.
Mota, C. C.
Moyer, R. A.
Murdough, J. H.
Murphy, Glenn

Neff, F. H.
Nesbitt, Russell B.

O'Connell, D. J.
Oliver, W. A.
Orbeck, M. J.
Orr, J. A.
Ostrander, J. E.

Palsgrove, Grant K.
Park, J. C.
Patten, W. E.
Paustian, R. G.
Payrow, H. G.
Perez, Laurence
Perry, John E.
Perry, Lynn
Person, H. T.
Peterson, F. G. E.
Petty, Benjamin H.
Peuriqoy, R. L.
Pheley, Donal B.
Phelps, H. E.
Pickels, G. W.
Pond, M. A.
Porter, Dwight
Prior, John C.
Puffer, Louis B.
Pulver, H. E.

Rader, Lloyd F.
Rathbun, John C.
Raymond, A. T.
Rayner, Wm. H.
Reed, Percy L.
Reen, Calvin G.
Reese, R. C.
Rhodes, Leland S.
Rice, H. A.
Rice, P. P.
Richey, J. J.
Richmond, A. E.
Riggs, H. E.
Robbins, A. G.
Rockwell, E. H.
Rodhouse, T. J.
Roehrig, G. F.
Rogers, C. E.
Rose, F. W.
Roth, C. O.
Rubey, H. K.
Russell, Frank A.
Ryon, Lewis B.

Sarason, Samuel D.
Saxton, Ren G.
Schad, Bernard T.
Scheve, C. J.
Schwarze, C. T.
Shank, Jacob R.
Shattuck, H. B.
Shedd, Thomas C.
Sheiry, E. S.
Sherlock, Robert H.
Sherman, C. E.
Slantz, F. W.
Slaymaker, R. R.
Smith, F. M.
Smith, Waldo E.
Smith, W. Sherman
Snow, F. C.
Snyder, M. K.
Spencer, W. R.
Spoffard, C. M.
Sprague, Embert H.
Springer, G. P.
Squire, E. J.
Stanton, Chas. B.
Stapley, Edward R.
Steinman, D. B.
Stephenson, L. D.
Stephenson, S. A.
Stewart, L. B.
Stewart, L. O.
Stocker, George P.
Stubbs, F. W.
Sumwalt, R. L.
Sutherland, Hale
Suttle, R. H.
Sweetser, E. O.

Taylor, Herbert F.
Taylor, W. C.
Terrell, Daniel V.
Thoman, W. H.
Thomas, Earl C.
Thomas, Franklin
Thomas, H. A.
Timby, E. K.
Todd, Marion W.
Tracy, J. C.
Trezise, F. W.
Trowbridge, D. S.
Turner, D. L.
Tymstra, S. R.
Tyrrell, H. G.

Uhrig, L. V.
Underwood, P. H.

Van Hagan, L. F.
Van Houten, R. W.
Van Ornum, J. L.
Vawter, Jamison
Voss, W. C.

Waddell, J. A. L.
Walters, Ralph H.
Walton, G.
Ward, G. C.
Ward, Samuel
Waterman, I. F.
Watwood, V. B.
Weaver, Frederic N.
Wegner, W. W.
Welch, Frederic W.
Wells, Melville B.
Wendt, W. B.
West, G. Alvin
Whelan, D. E.
White, C. L.
White, Leon V.
Whitehead, L. W.
Wilcox, Elgin R.
Williams, J. P. J.
Williams, S. N.
Williams, W. S.
Wilson, D. M.
Wilson, Wilbur M.
Winslow, A. E.
Witmer, Francis P.
Wolfard, N. E.
Wood, F. M.
Wright, Edwin H.

Young, C. R.

Zeiner, O. S.

ECONOMICS

Barnwell, G. W.

Filipetti, Geo.

Haygood, T. F.

McKenry, Nell

Scherger, G. L.

ELECTRICAL ENGINEERING

Abbott, T. A.
Adams, C. A.
Adams, F. J.
Ahlquist, R. W.
Albert, A. L.
Alger, Philip L.
Anderson, C. A.
Anderson, H. W.
Anderson, Stewart
Anderson, Wm.
Arnold, Bion J.
Attwood, S. S.

Bailey, B. F.
Ball, T. F.
Balmford, J. A.
Bangratz, Ernest G.
Barnett, B.
Barrows, W. E.
Batchelder, D. E.
Bauer, W. M.
Baum, Harry
Beach, Robin
Beaver, J. L.
Beck, F. J.
Beck, L. E.
Bennett, C. E.
Bennett, Edward
Berg, E. J.
Bibber, Harold W.
Bingham, L. A.
Blalock, Grover C.
Bliss, W. H.
Boring, Maynard M.
Bowles, E. L.
Bowman, J. H.
Brackett, B. B.
Brenneman, J. L.
Bristol, F. J.
Brooks, Morgan
Brown, A. S.
Brown, H. A.

Brown, W. F.
Brown, Wesley B.
Browne, Wm. Hand
Bryant, J. M.
Buchanan, Roy O.
Bueche, H. S.
Bull, H. S.
Bureau, E. A.

Caldwell, F. C.
Campbell, Ivor S. C.
Canfield, Donald T.
Canavaciol, F. E.
Carr, Clifford, C.
Caverley, L. C.
Chatelain, Mikael
Cherry, F. H.
Clark, Edwin E.
Clark, J. C.
Conrad, A. G.
Cook, A. L.
Coover, M. S.
Corcoran, George F.
Correll, J. A.
Cosandey, C. J.
Creager, Paul S.
Curry, W. A.
Curtner, D. L.

Dahl, O. G. C.
Daley, John L.
Dates, H. B.
Davis, W. C.
Dawes, C. L.
Dawes, Lyman M.
Dearborn, R. H.
Dennison, B. C.
Dickinson, L. P.
Dillingham, H. C.
Doggett, L. A.
Douglas, J. A.
Douglas, J. F. H.
Dow, W. G.
Dreese, Erwin
Dudley, A. M.
Duffey, C. F.
Duling, H. B.
DuVall, W. Clifton
Dyche, H. E.

Edison, Oskar E.
Emrick, Paul S.
Everitt, W. L.
Ewing, D. D.

Fairburn, A. J. B.
Farrar, C. L.
Fife, S. T.
Fish, F. A.
Fisher, B. A.
Fishman, S.
Fitzgerald, T. W.
Foltz, L. S.
Foster, E. S.
Fouraker, Leroy L.
Fouraker, R. S.
Fox, L. H.
Frame, Floyd H.
Frazier, R. H.
Fuller, L. F.
Fussell, Lewis

Gamble, W. H.
Gorham, R. C.
Govier, C. E.
Grandy, L. S.

Guse, C. E.

Hackley, R. A.
Hall, Wesley B.
Halligan, Clair W.
Harding, C. F.
Hartig, H. E.
Hehre, Fred W.
Helwig, W. F.
Hershey, A. W.
Hessler, V. P.
Hibshman, N. S.
Higbie, H. H.
Hill, A. S.
Hillebrand, W. A.
Hinckley, A. D.
Hitchcock, Leon W.
Hodge, C. A.
Holmes, W. M.
Holt, C. B.
Hoover, P. L.
Hughes, M. C.
Hull, R. H.
Humphrey, H. K.
Humphries, P. H.
Hunt, O. D.

Irland, G. A.

Jackson, D. C.
Jackson, D. C., Jr.
Jacobus, D. S.
Jansky, Cyril M.
Jenkins, D. R.
Jenkins, H. M.
Johnson, Elmer W.
Johnson, F. Ellis
Johnson, J. Hugo
Johnson, W. D.
Jordan, Henry G.
Jorgenson, L. M.

Kahn, Louis
Kammerman, J. O.
Kennelly, A. E.
Kenrick, G. W.
Kent, J. M.
Kerchner, Russell M.
King, Morland
Kinney, Edward E.
Kinsloe, Charles L.
Kloeffler, Royce G.
Knight, A. R.
Knight, C. D.
Knipmeyer, C. C.
Koerber, G. A.
Kuhlman, J. H.
Kurtz, E. B.

La Bree, F. H.
Lanier, A. C.
Laning, W. A.
Lansil, Clifford E.
Lawrence, R. R.
Lefebvre, Olivier O.
Lincoln, P. M.
Little, Arlington P.
Lloyd, T. C.
Lovell, Alfred H.
Lovett, I. H.
Lowe, W. S.

MacKavanagh, T. J.
Marchant, G. B.
Markle, David L.
Markle, E. W.

Martin, J. R.
Maxfield, Harold A.
McClain, F. H.
McIlhenny, I. F.
McMillan, F. O.
McNamara, F. T.
McNeely, John K.
Meserve, W. E.
Metzenheim, Henry H.
Miller, Harry P.
Miller, J. B.
Miller, J. S.
Moore, Arthur D.
Morgan, T. H.
Moss, Sanford A.
Mueller, G. V.
Mulligan, J. E.
Munro, M. S.

Naeter, Albrecht
Nash, C. A.
Neitzert, Carl
Newell, Hobart H.
Nichols, B. H.
Nims, A. A.
Norcross, A. S.
Norris, Ferris W.
Norris, H. H.

O'Banion, A. L.
Osburn, O. E.

Paine, Ellery B.
Pangborn, R. J.
Paslay, L. C.
Patterson, L. L.
Peet, J. C.
Pierce, C. A.
Polk, O. H.
Poole, F. L.
Porter, Roland G.
Powell, Albert P.
Price, Harold W.
Price, John R.
Pritchard, S. R.
Puchstein, A. F.
Pullen, M. W.
Pumphrey, F. H.
Putnam, R. C.

Quinlan, R. E.

Ramsay, J. W.
Rappel, U. J.
Reynolds, E. E.
Reynolds, James A.
Rhodes, Sam R.
Rhodes, Walter K.
Rice, P. X.
Richardson, D. E.
Ricker, Claire W.
Rittenhouse, L. H.
Roberts, Emerson B
Roberts, J. M.
Robertson, B. L.
Robinson, L. L.
Rodman, W. S.
Rollins, E. B.
Rosebrugh, T. R.
Rowell, L. D.
Rush, H. S.
Russell, Chester
Ryan, H. J.

Ryan, W. T.

Sabbagh, E. M.
Sailer, L. R.
Savant, D. P.
Schealer, S. R.
Scott, Charles F.
Sechrist, G. H.
Seeley, W. J.
Seyfert, S. S.
Shaffer, H. A.
Sheppard, H. S.
Sherwood, W. W.
Shorey, Lawrence F.
Sitz, E. L.
Slichter, W. I.
Slingerland, Sam.
Smith, F. W.
Smith, G. Wallace
Smith, Paul C.
Smith, W. L.
Snow, John E.
Sorensen, R. W.
Spencer, F. A.
Stavely, Earl B.
Stelzner, W. B.
Still, Alfred
Stockwell, F. C.
Stout, M. B.
Straiton, A. W.
Swenson, G. W.

Tallman, F. H.
Tang, K. Y.
Tappan, F. G.
Taylor, A. L.
Teare, B. R.
Terwilliger, C. V. O.
Thaler, J. A.
Tilghman, Harrison
Timble, W. H.
Tingley, F. T.
Todd, M. E.
Tompkins, Fred. N.
Topping, A. N.
Towle, N. L.
Tracy, G. F.
Trinkle, Robert J.
Tubini, B. A.
Tucker, Carlton E.
Turner, C. A. P.
Turner, H. M.
Tuthill, John K.
Tykociner, J. T.

Upson, W. L.

Van den Meersche, A. J.
Vetter, H. F.

Waddell, J. A. L.
Wadsworth, F. L. O.
Walker, H. N.
Walkling, Walter
Walter, Otto W.
Walther, John T.
Warner, Harry O.
Warner, Robert W.
Warner, Russell G.
Waters, J. S.
Watson, Arthur E.
Watson, J. W.
Weil, Jos.
Weinbach, M. P.
Whipple, Clyde C.
Whipple, R. R.
Wildes, Karl L.
Willis, B. S.
Willis, C. H.
Willson, F. G.
Winkler, E. W.
Witham, R. L.
Wooster, L. F.
Work, William R.
Wright, D. H.

Zimmer, Albert R.

ENGINEERING DRAWING

Aakhus, Theodore
Allen, Frank G.

Baldwin, L. S.
Baldwin, O. J.
Barnard, N. H.
Berard, S. J.
Black, H. H.
Bradley, H. C.
Brubaker, Wm. F.
Bukovsky, P. N.
Burns, F. J.

Castleman, J. R.
Chillman, E. F.
Church, A. H.
Clark, A. L.
Cleary, S. F.
Cleveland, L. F.
Cooper, C. D.
Coppersmith, C. W.
Crossman, Ralph S.
Cruzen, F. T.

Dunham, E. M.

Eckle, J. N.

Fairbanks, O. W.
Farnham, W. E.
Fenwick, H. H.
Finch, F. R.
Frankland, Ed.
Freeman, M. L.
French, Thos. E.
French, R. W.
Frey, G. J.

Gerardi, Jasper
Gingrich, R. F.
Gleason, George S.
Glenn, E. W.
Goodrich, A. L.

Hall, S. G.
Hammond, R. J.
Harrington, T. H.
Heacock, Frank A.
Higbee, F. G.
Hoelscher, R. P.
Hood, Geo. J.
Horine, J. S.
Howe, L. B.
Hunt, S. P.

Jones, L. D.
Jorgensen, Albert

Kennedy, F. Lowell
Kirby, Richard S.

Landreau, Georges
Leighton, Arthur W.
Levens, A. S.
Ludden, D. J.
Lurie, A. N.

MacKenzie, N. W.
Mann, Clair V.
Maxson, George R.
McCully, H. M.
McGivern, J. G.
Miller, J. M.
Mitchell, Alva
Mock, C. O.
Morley, G. A.

Nettleton, E. B.
Nielsen, Paul
Ninde, Geo. F.
Nollau, L. E.
Nudd, Willard E.

Orth, H. D.
Otter, J. V.

Paffenbarger, R. S.
Perryman, C. C.
Phelps, Guy M.
Porsch, J. H.
Porter, F. M.
Potter, O. W.

Quaid, L. J.

Richmond, R. F.
Rising, J.
Russ, John M.

Sawyer, R. A.
Schumann, Charles H.
Smith, W. G.
Smutz, F. A.
Spencer, H. C.
Springer, C. H.
Steward, R. K.
Stewart, Earl H.
Stone, O. M.
Street, W. E.
Strong, A. J.
Svensen, C. L.

Tebo, F. A.
Thayer, H. R.
Thomas, A. L.
Tobias, A. L.
Townsend, C. E.
Tozer, E. F.

Walker, E. S.
Walker, L. D.
Walsh, F. W.
Warner, F. M.
Widdop, Robt.
Wilcox, A. C.
Williams, Owen E.
Wilson, E. R.

ENGLISH

Birk, W. Otto
Brown, C. A.

Creek, H. L.

Davis, H. W.
De La Barre, C. F.
Dumble, W. R.

Godfrey, W. P.
Grismer, F. A.

Hall, Amy V.
Harbarger, S. A.
Harrison, T. P.
Hendricks, Walter
Herrick, R. M.
Howell, A. C.

Jamison, W. W.
Jones, W. P.

Lange, P. J. H.

McDonald, P. B.

Nelson, J. R.
Newman, C. M.

Park, C. W.
Parrott, Alice A.
Pearson, H. G.

Raymond, F. N.
Raymond, W. R.

Scamman, W. F.
Seaver, H. L.
Starbuck, Arward
Summey, George
Sypherd, W. O.

Thompson, K. O.
Townsend, A. H.

Vaughan, J. L.

Wabnitz, W. S.
Whittemore, J. S.

FOREIGN LANGUAGES

Frey, Emil

Greiner, O. A.

INDUSTRIAL ENGINEERING

Ayars, W. S.

Bagley, J. B.
Baker, Ray P.
Bangs, J. R., Jr.
Barnes, R. M.
Billmyer, C. D.
Brill, P. B.
Bullinger, C. E.
Burley, J. W.
Buxton, G. F.

Furia, J. J.

Guild, L. R.

Hallock, J. W.
Hastings, H. B.
Hatfield, H. D.
Hobe, J. W.
Hockema, F. C.
Hummel, J. O. P.
Hunt, DeWitt

Ingalls, J. W.

Johnson, Theodore S.

Lee, M. A.
Lehoczky, P. N.
Lytle, C. W.

Maclin, E. S.
McDaniel, J. E.

Neyhart, A. E.
Norton, P. T.

Porter, D. B.

Rautenstrauch, W.
Reeves, E. H.
Rickly, O. D.
Roe, J. W.

Scott, L. C.
Scrimshaw, Stewart
Smith, E. D.

Thuesen, H. G.

Younger, John

MACHINE DESIGN

Archibald, Leon
Ault, E. S.
Autenrieth, G. C.

Bartlett, G. M.
Branigan, G. F.

Challender, R. T.

Dale, R. B.
Dunham, Heber
Durland, M. A.

Eggers, H. C. T.
Egry, C. Robert
Eldmann, F. L.

Field, L. N.
Fullan, M. T.

Gill, J. H.
Gray, H. C.

Halliday, W. R.
Ham, C. W.
Huacuja, F.

Jett, C. C.

Kirchner, W. H.
Klugh, W. W.

Langille, H. B.
Lee, F. H.
Leet, H. W.
Lott, S. H.
Luce, A. W.

Martenis, J. V. S.
Mayrose, H. E.
Miller, H. W.
Moffat, G. N.
Morrison, Peter
Myers, H. D.

Norman, C. A.

Olsen, J. C.

Perry, R. V.

Robert, J. M.
Rossmassler, Carl
Ryan, J. J.

Sahag, L. M.
Schuck, R. F.
Slaymaker, P. K.
Swett, G. W.

Townsend, Arthur L.

Watts, E. F.
White, B. S.
Winston, S. E.

Young, C. H.

MATHEMATICS

Barker, C. L.
Benner, J. A.
Berry, W. J.
Brandberry, J. B.
Brenke, W. C.
Brick, B. R.
Brooke, W. E.
Brown, E. C.
Bubb, F. W.
Butterfield, A. D.

Cherry, C. E.
Church, Earl
Comstock, C. E.
Cowles, W. H. H.
Crockett, C. W.

Dalaker, H. H.
Dimick, Chester E.
Dix, L. E.
Doeringsfeld, H. A.
Dostal, B. F.
Drummond, G. B.
Durkee, P. W.

Erskine, Harry

Fisher, H. A.
Fisher, James
Fulmer, H. K.

Garcelon, W. R.
Gay, H. J.
Grummann, H. R.

Hanna, U. S.
Hansen, A. S.
Harrelson, John W.
Harter, G. A.
Hartshorn, W. W.
Haskins, E. E.
Hatch, D. A.
Hazard, C. T.
Hedrick, E. R.
Hertzler, E. A.
Hobbs, A. W.
Hosford, H. M.
Hoy, E. A.
Hunt, G. H.
Huntington, E. V.
Hutchinson, C. A.

Jordan, H. E.

Jurdak, M.
Justin, E. M.

Kersten, H. J.
Kiefer, E. C.
Krathwohl, W. C.

Lehmann, C. H.
Leonard, H. B.
Lindsay, F. B.
Lueth, I. B.

MacDonald, S. L.
Madigan, J. A.
March, H. W.
Marshall, Wm.
McClintock, W. M.
McMaster, A. S.
Middlemiss, R. R.
Millington, H. G.
Mock, H. L.
Morley, R. K.

Nelson, W. K.

Oglesby, E. J.
O'Shaughnessy, L.
Owens, F. W.

Plant, L. C.
Purdie, K. S.

Reagan, L. M.
Reinsch, B. P.
Remick, B. L.
Reynolds, J. B.
Rice, Harris
Rietz, H. L.
Robb, J. M.
Root, R. E.
Rose, F. O.
Rossell, H. E.
Running, T. R.

Sheldon, D. C.
Sheldon, E. W.
Siler, R. W.
Simester, J. H.
Siroky, Ed.
Slobin, H. L.
Solt, M. R.
Spear, Jos.
Stout, C. E.
Strane, A. J.

Tallman, W. D.
Taylor, W. E.
Thomas, C. F.
Thomas, R. G.
Thompson, J. E.

Van Buskirk, H. C.

Weaver, J. H.
Webber, W. Paul
Wells, E. D.
Wilbur, W. E.
Williams, F. W.

MECHANICAL ENGINEERING

Aldrich, B. M.
Alexander, W. T.
Algren, A. B.
Allen, C. L.
Amidon, L. L.
Anderson, E.
Anderson, H. J.
Anderson, Robert M
Aulich, W. M.

Baender, F. G.
Bailey, N. P.
Baker, Douglas
Baker, Ellis C.
Barba, C. E.
Barclay, S. D.
Barnard, N. H.
Barnard, W. N.
Bateman, George F.
Bauer, F. S.
Bauer, Paul
Beitler, Samuel R.
Berger, Franz A.
Berry, C. H.
Berry, Charles W.
Billings, J. Harland
Bischof, G. J.
Blackburn, H. W.
Blake, Douglas
Bliss, William D.
Blumberg, Leo
Boelter, L. M. K.
Boggs, R. W.
Bourdelais, G. A.
Bowman, H. T.
Brandt, C. D.
Brainard, Boyd B.
Breckenridge, L. P.
Brewer, A. V.
Bridge, L. R.
Brookman, H. E.
Brooks, J. Ansel
Brown, A. I.
Brown, L. T.
Brown, Ralph E.
Bruckner, Arthur
Brunton, L. J.
Buchanan, J. E.
Bucher, Paul
Bunting, A. E.
Burpee, F. F.
Burr, A. H.
Bursley, J. A.
Butterfield, Thomas E.

Calderwood, Jas. P.
Cameron, Hugh
Camp, E. W.
Campbell, J. M.
Campbell, R. D.
Candee, F. W.
Carpenter, Edward L.
Carvin, Frank D.
Cass, A. A.
Casberg, C. H.
Cheatham, J. C.
Childs, W. P.
Chiles, George S.
Christie, A. G.
Church, Edwin F.
Clark, D. S.
Cleghorn, M. P.
Clouse, J. H.
Coahran, J. M.
Connelly, J. R.
Conner, N. W.
Coogan, C. H.
Cooke, Morris L.
Coonradt, A. C.
Cowie, Alexander
Coyle, J. L.
Craig, Dudley P.
Crain, L. D.
Crawford, Charles W.
Crofoot, George E.
Croft, H. O.
Cruickshanks, B. C.
Culver, E. P.
Cushman, P. A.

Davidson, M. W.
Dawson, E. F.
Davis, David E.
DeBaufre, Wm. L.
Degler, H. E.
Dent, J. A.
Devine, J. J.
Dixon, Solon
Doll, Alfred W.
Domonoske, Arthur B.
Donovan, E. T.
Doolittle, J. S.
Dorrans, J. M.
Doughtie, V. L.
Downard, R. W.
Dudley, Samuel W.
Dunkin, William V.
DuPriest, John R.
Durand, W. F.

Easton, W. H.
Eaton, P. B.
Ebaugh, N. C.
Eckhardt, C. J.
Edwards, W. W.
Egilsrud, F. S.
Ekstrand, K. H.
Elizondo, Y. A.
Ellenwood, F. O.
Elliott, Ben. G.
Ellis, W. T.
Endsley, L. E.
Ernst, G. C.
Everett, H. A.
Eyre, T. T.

Fabel, D. C.
Faires, Virgil M.
Fairfield, John G.
Fernald, E. M.
Fernow, B. E.
Ferretti, Alfred J.
Fessenden, E. A.
Fillmore, H. W.
Finnegan, Jos. B.
Fitts, Raymond U.
Fleming, D. W.
Flinner, A. O.
Flodin, John
Foademwalt, Fred
Ford, A. R.
Foxwell, W. H.
Fraser, I. M.
Fry, H. P.
Fulton, W. T.

Gallalee, J. M.
Garland, C. F.
Gaum, C. G.
Gauss, Henry F.
Gavett, Jos. W.
Gebhardt, G. F.
Geiger, John W.
George, V. C.
Gibbs, R. E.
Godeke, H. F.

Gray, E. S.
Green, Boynton M.
Gregory, W. B.
Griffin, Fred S.
Groat, B. F.
Grone, Edward A.
Gulick, Lee N.
Gwiazdowski, A. P.

Hafford, W. B.
Hall, Burrill R.
Hall, James A.
Haney, J. W.
Hansen, E. T.
Hardgrave, H. J.
Hargest, W. J.
Harlan, Orlan K.
Harper, A. C.
Harrington, W. F.
Harris, Harry E.
Hay, Earl D.
Hazeltine, L. A.
Heck, Robert C. H.
Henderson, Charles
Henshaw, C. N.
Hesse, H. C.
Hill, A. M.
Hixon, C. R.
Hoefer, E. G.
Hofmann, G. A.
Hogan, M. B.
Holland, A. D.
Holland, U. C.
Holmes, C. W.
Horack, C. W.
Hosted, E. G.
Hostetter, H. C.
Hotchkiss, C. H. B.
Howard, D.
Howe, E. D.
Howell, R. S.
Hughes, George G.
Hughes, T. P.
Hunter, J. A.
Hunter, J. W.
Husted, H. F.

Jablow, Charles
James, Walter H.
Jennings, B. H.
Jensen, G. L.
Joerger, C. A.
Jones, J. B.
Judd, Horace

Karelitz, G. B.
Kavanaugh, Dennis
Kavanaugh, W. H.
Kentor, F. W.
Keeler, Hugh E.
Keller, George J
Keller, John F.
Kemler, Emory
Kenerson, W. H.
Kent, Clarence H.
Kent, H. L.
Kiefer, P. J.
Kile, R. F.
Kilpatrick, A. V.
King, G. C.
King, R. S.
Kistler, P. N.
Klein, A. W.
Knapp, W. A.
Knight, W. A.

Knowles, M. G.
Koenig, L. R.
Koepke, C. A.
Kolb, R. P.
Kopp, Chas. F.
Kunkle, G. M.

Lambertine, J. A.
Larkin, F. V.
Larson, C. W.
Larson, G. L.
Laton, T. J.
Leavitt, E. E.
LeConte, J. N.
Leonard, C. M.
Le Page, C. B.
Leutwiler, O. A.
Lewis, J. F.
Lewis, R. E.
Lichty, L. C.
Light, J. J.
Lindell, W. F.
Livingston, R. T.
Lloyd, Harold R.
Lockwood, H. J.
Lucarini, G. B.
Lucke, C. E.
Ludy, L. V.
Luebs, August A.
Lyon, D. R.

Macconochie, A. F.
MacCullough, G. H.
Mack, A. J.
MacNaughton, Edgar
Magruder, Wm. T.
Maleev, V. L.
Marks, L. S.
Marquis, F. W.
Martin, B. W.
Martin, W. H.
Mason, H. Lea
Mason, H. W.
Mathews, R. T.
Matthews, J. J.
McCarter, W. W.
McKergow, C. M.
McKinnon, J. C.
Meeker, W. H.
Mehrhof, F. E.
Merrick, C. M.
Miller, W. T.
Minarik, R. G.
Ming, Fred W.
Mitchell, D. H.
Mitchell, G. I.
Moody, L. F.
Moore, E. R.
Morse, F. T.
Morse, J. L.
Morton, R. W.
Munro, R. J.

Nelson, D. W.
Norton, A. E.

O'Bannon, L. S.
O'Brien, A. V.
Ohle, E. L.
Olson, O. A.

Paddock, R. G.
Palmer, D. M.
Palmer, H. K.
Park, C. F.
Parker, Eri B.

Parr, B. F.
Peck, J. S.
Peebles, J. C.
Pence, W. D.
Perkins, D. L.
Philbrick, H. S.
Phillips, M. C.
Pound, J. H.
Prageman, I. H.
Price, L. C.
Prior, John A.

Quier, K. E.

Raber, B. F.
Randolph, James R.
Rasche, W. H.
Reed, J. C.
Reed, K. W.
Repscha, A. A.
Reuling, W. E.
Rice, R. B.
Rich, K. W.
Roberts, C. P.
Robertson, B. J.
Roesch, Daniel
Roemmele, H. F.
Ross, John A.
Roudebush, R. E.
Rountree, H. C.
Rowley, F. B.
Roys, Francis W.
Rubenkoenig, Harry

Salma, E. A.
Satterfield, H. E.
Sauers, John A.
Sawdon, W. M.
Schmidt, E. C.
Schmidt, H. P.
Schrader, H. J.
Schroeder, W.
Schwartz, F. L.
Schweizer, Paul E.
Scofield, H. H.
Selvidge, R. W.
Setchell, J. E.
Seward, H. L.
Shenk, D. H.
Shoop, C. F.
Short, B. E.
Shoudy, W. A.
Singer, F. L.
Sink, R. S.
Sjogren, C. A.
Slade, J. J.
Sloane, Alvin
Sluss, A. H.
Smith, Earl B.
Smith, Ralph A.
Solberg, H. L.
Sorenson, A. E.
Sparrow, T. A.
Spooner, H. J.
Stearns, Fred A.
Stefani, Luis
Stetson, George A.
Stevens, W. J.
Stewart, F. C.
Stinson, K. W.
Stolworthy, E. H.
Strate, J. T.
Stuart, M. C.
Summers, R. E.
Sweetser, W. J.
Sweigert, R. L.

Taft, Theo. H.
Tait, R. S.
Taylor, A. L.
Taylor, C. F.
Terrill, A. C.
Thatcher, C. G.
Therkelsen, Eric
Thornburg, M. L.
Tracy, S. J.
Trinks, W.
Trosper, Ralph
Trotter, R. A.
Trueblood, R. O.
Tuve, Geo. L.
Twogood, A. J.

Upp, C. R.

Vallance, Alex
Van Dyke, J. R.
Vaughan, L. L.
Vedder, J. N.
Vicker, J. J.
Vopat, W. A.
Vose, F. H.

Wagner, Carl L. H.
Ward, N. F.
Washington, L.
Waters, E. O.
Watson, Harry D.
Weiland, W. F.
Weiss, H. A.
Werber, F. C.
Wharton, J. R.
Whenman, J. H.
Wilbur, R. S.
Willey, E. C.
Willis, P. A.
Willmarth, E. H.
Wilson, B. J.
Wilson, G. C.
Wilson, G. S.
Wilson, L. A.
Wingren, R. M.
Wischmeyer, Carl
Wohlenberg, W. J.
Woods, B. M.
Wright, M. B.

Young, E. G.
Young, G. A.

Zarobsky, I. F.
Zeller, J. W.
Zerban, A. H.
Zschokke, A. J.

MECHANICS AND MATERIALS

Adams, A. S.
Arnold, J. N.
Bliss, Z. R.
Boomsliter, G. P.
Booth, J. L.
Boyd, J. E.
Brown, F. L.
Bryans, W. R.
Bullard, J. A.

Chambers, S. D.
Cheek, F. J., Jr.
Churchill, H. D.
Clark, E. C.
Clark, L. W.

Coddington, E. F.
Collins, W. L.
Comstock, E. H.
Conley, W. J.
Cornell, W. R.
Cox, W. J.
Curtis, D. D.
Cutshall, C. S.

Dana, F. C.
Danforth, R. H.
Dawley, E. R.
Dietrich, J. J.
Draffin, J. O.
Duff, C. M.
Dukes, R. G.
Dyble, J. H.

Emerson, W. D.
Enger, M. L.
Ensign, N. E.
Ericksen, E. L.

Fairman, Seibert
Folk, S. B.
Freire, V. da S.
Frocht, M. M.
Fuller, C. E.

Garrett, S. S.
George, S. G.
Girvin, H. F.
Gus, Chas. E.

Hartenberg, R. S.
Hawkins, G. A.
Herrick, C. A.
Hinrichs, F. W.
Hoffman, J. D.
Holmes, F. E.
Howell, E. V.

Johnston, W. A.
Jones, F. E.

Kingman, E. D.
Koenitzer, L. H.
Kommers, J. B.

Laurson, P. G.
Leigh, C. W.

Maurer, E. R.
Mavis, F. T.
Michel, Rudolph
Miller, F. E.
Moore, H. F.

Noble, P. M.

Olmstead, C. T.
Othus, J. C.
Ott, P. W.

Paul, C. E.
Pearce, C. E.
Pickett, Gerald
Pietta, Dan H.
Poorman, A. P.
Posey, C. J.
Powell, R. W.
Priester, G. C.

Rettger, E. W.
Riggs, N. C.

Roark, R. J.
Robert, J. H.

Sanders, W. B.
Sayre, M. F.
Scholer, C. H.
Seely F. B.
Straub, L. G.
Swinton, R. S.

Taylor, D. C.
Taylor, Edw.
Thomas, Evan
Tilden, C. J.
Timoshenko, S.
Tucker, Leroy
Turner, W. P.

Van den Brock, J. A.

Wendt, K. F.
Wiepking, C. A.
Withey, M. O.
Wood, E. H.
Wood, H. W.
Wood, K. D.
Woodward, S. M.
Wunderlee, J. L.

METALLURGY

Barlow, W. E.
Boylston, H. M.

Chapman, T. G.
Crouse, C. S.
Cunningham, J. B.

Demorest, D. J.
Dowdell, R. L.

Francis, C. W.

Goodale, S. L.

Harder, O. E.
Hersam, E. A.
Homerberg, V. O.

Kern, E. F.

Lyon, Dorsey A.

Manderfield, N. H.
Mathewson, C. H.
Milligan, W. E.

Palmer, I. A.

Sellers, G. A.
Stoughton, Bradley

Van Wert, L. R.

Witmer, L. F.

MINING AND GEOLOGY

Black, R. M.

Callan, A. C.

Daniels, Joseph
Dodge, John F.
Dyer, F. C.

Graton, L. C.
Grider, R. L.
Guiteras, J. R.

Haultain, H. E. T.

Lewis, R. S.
Locke, C. E.

Mathewson, E. P.
McCaughey, W. J.
McCullough, E. W.
McLaughlin, D. H.
Miller, B. L.

Nold, H. E.

O'Rourke, E. V.

Parker, W. H.
Plank, W. B.

Read, T. T.

Serviss, F. L.

Talmage, S. B.

Underhill, James

Wagner, H. A.
Warner, R. K.

Young, C. M.

PHYSICS

Abbott, R. B.
Albright, P. S.
Atkinson, A. A.

Ball, Albert
Bennett, D. M.
Bidwell, C. C.
Blake, F. C.
Bliss, H. H.
Bordner, E. R.
Bortell, E. E.
Brahtz, J. H. A.
Brightman, C. L.
Bro. Felix
Brown, F. L.
Brown, W. F.
Buckingham, Earle

Coolidge, J. A.
Cooper, F. L.

Dahstedt, R. T.
Drisko, W. J.
Duff, A. M.
Dysart, P. M.

Edwards, J. B.
Elliott, D. S.
Entwisle, F. N.

Fraim, P. B.
Fry, H. M.

Grandy, M. B.
Grantham, G. E.

Hall, V. B.
Halsey, Hugh
Hamilton, J. O.
Hausmann, Erich
Hedrick, W. A.
Heflin, S. M.
Hodge, Percy
Hower, H. S.
Howitt, Nathan

Knipp, C. T.
Kovarik, A. F.

Lambe, E. P.

MacNutt, Barry
Mallory, Francis
McMurtray, H. D.
Merritt, H. W.
Miller, D. C.
Muncy, V. E.
Murat, S.

Norton, C. L.
Nyswander, R. E.

Owens, H. D.

Pegram, G. B.
Piper, F. F.
Porter, R. A.
Pupin, M. I.

Raub, L. G.

Severinghaus, W. L.
Sherman, G. W.
Silvey, O. W.
Slack, E. P.
Slack, F. G.
Smith, T. T.
Spinney, L. B.
St. Peter, W. N.
Stempel, W. M.
Stewart, G. W.
Stewart, O. M.
Swaim, V. F.

Taylor, F. D.
Thomas, R. P.
Toole, C. E.

Wade, F. H.
Watson, C. G.
Weishampel, J. A.
Wendling, A. V.
Wheeler, N. E.
Wilcox, G. M.
Willson, F. G.
Wilsey, E. F.

Yenni, W. H.
Young, L. H.

PSYCHOLOGY

Findley, W. G.

Magoun, F. A.

O'Connor, Johnson

Shaw, E. A.

Walters, J. E.

SANITARY ENGINEERING

Babbitt, Harold E.
Barnes, G. E.
Boyce, Earnest

Dawson, F. M.
Decker, A. J.

Fair, G. M.

Lafreniere, T. J.

Mead, D. W.

Saville, Thorndike
Sette, F. J.
Steel, E. W.

Talbot, A. N.

Walker, C. L.
Walker, E. D.
Waterman, E. L.
Whitener, J. S.
Wiley, R. B.

SHOP AND MECHANIC ARTS

Arnold, J. N.

Bean, H. E.
Benedict, Otis
Burley, J. W.

Carlson, W. W.
Copley, J. O.

Graham, E. C.
Grant, R. J.

Harlan, J. C.

Isenberg, D. A.

Jones, C. B.
Jones, E. C.

Lindley, R. W.

Nesbitt, R. E.

Starr, C. J.
Steele, J. N.

Thomas, F. H.
Trueblood, R. B.

Van Gaasbeek, R. M.
Vellinger, A. J.

Wendt, R. E.
Wheeler, F. B.
Wright, H. M.

TOTAL MEMBERS, PAST AND PRESENT.

Aug.	20, 1894	156	
Sept.	2, 1895	184	
Aug.	20, 1896	200	(about)
Aug.	16, 1897	203	
Aug.	18, 1898	226	
Aug.	17, 1899	238	
July	2, 1900	249	
June	29, 1901	261	
June	27, 1902	253	
July	1, 1903	271	
Sept.	1, 1904	325	
June	28, 1905	379	
July	2, 1906	400	
July	1, 1907	415	
June	27, 1908	675	
June	24, 1909	759	
June	23, 1910	848	
June	27, 1911	1,071	
June,	1912	1,102	
June,	1913	1,158	
March,	1914	1,339	
July	1, 1915	1,452	
March,	1916	1,504	
March,	1917	1,505	
March,	1918	1,506	
April,	1920	1,511	
April,	1922	1,589	
March,	1923	1,694	
March,	1924	1,775	
March,	1926	1,988	
June,	1927	1,995	
May,	1928	2,025	
April,	1929	2,086	
Nov.,	1929	2,169	
Nov.	1, 1930	2,192	
Nov.	30, 1931	2,274	
Nov.	8, 1932	2,227	
Jan.	27, 1934	2,271	

Individual Members	2,271
Institutional Members	121
Total Membership	2,392

MEETINGS OF THE S. P. E. E.

1893, July 30–Aug. 5	Chicago, Ill.*	I. O. Baker, Univ. of Ill. (Chairman. Section E.)
1894, Aug. 20–22	Brooklyn Polytechnic Institute, Brooklyn, N. Y.	DeVolson Wood, Stevens Inst. of Technology.
1895, Sept. 2–4	Springfield, Mass.	G. F. Swain, Massachusetts Inst. of Technology.
1896, Aug. 20–22	Buffalo, N. Y.	Mansfield Merriman, Lehigh Univ.
1897, Aug. 16–18	University of Toronto, Toronto. Ontario.	H. T. Eddy, Univ. of Minn.
1898, Aug. 18–20	Boston, Mass.	J. B. Johnson, Wash. Univ., Missouri.
1899, Aug. 17–19	The Ohio State University, Columbus, O.	T. C. Mendenhall, Worcester Polytechnic Inst.
1900, July 2–3	Columbia University, New York City.	I. O. Baker, Univ. of Ill.
1901, June 29–July 2	Buffalo, N. Y.	F. O. Marvin, Univ. of Kans.
1902, June 27–28	Pittsburgh, Pa.	Robert Fletcher, Dartmouth College.
1903, July 1–3	Niagara Falls, N. Y.	C. M. Woodward, Wash. Univ., St. Louis.
1904, Sept. 1–3	St. Louis, Mo.	C. F. Allen, Mass. Inst. of Technology.
1905, June 28–29	Atlantic City, N. J.	F. W. McNair, Mich. Coll. of Mines.
1906, July 2–3	Cornell University, Ithaca, N. Y.	C. L. Crandall, Cornell Univ.
1907, July 1–3	Case School of Applied Science, Cleveland, O.	D. C. Jackson, M. I. T.
1908, June 24–27	Detroit, Mich.	Chas. S. Howe, Case School of Applied Science.
1909, June 24–26	Columbia University, New York City.	F. E. Turneaure, Univ. of Wis.
1910, June 23–25	University of Wisconsin, Madison, Wis.	H. S. Munroe, Columbia Univ.
1911, June 27–29	Carnegie Institute of Technology and the University of Pittsburgh, Pittsburgh, Pa.	A. N. Talbot, Univ. of Ill.
1912, June 26–29	M. I. T., Harvard and Wentworth, Boston Mass.	W. G. Raymond, Univ. of Iowa.
1913, June 24–26	University of Minnesota, Minneapolis, Minn.	W. T. Magruder, Ohio State Univ.
1914, June 23–26	Princeton University, Princeton, N. J.	G. C. Anthony, Tufts College, Mass.
1915, June 22–25	Iowa State College, Ames, Ia.	Anson Marston, Iowa State College.
1916, June 19–22	University of Virginia, University, Va.	H. S. Jacoby, Cornell Univ.
1917, July 6–7	Washington, D. C.	G. R. Chatburn, Univ. of Neb.
1918, June 26–29	Northwestern University, Evanston, Ill.	M. S. Ketchum, Univ. of Colo.

* Meeting of Section E, Engineering Education, of the World's Engineering Congress, at which the S. P. E. E. was organized.

1918, December 6-7 *	Cambridge, Mass.	J. F. Hayford, Northwestern University.
1919, June 25-28	Johns Hopkins University, Baltimore, Md.	J. F. Hayford, Northwestern University.
1920, June 29-July 2	University of Michigan, Ann Arbor, Mich	A. M. Greene, Jr., Rensselaer Polytechnic Inst.
1921, June 28-July 1	Yale University, New Haven, Conn.	M. E. Cooley, Univ. of Mich.
1922, June 20-23	University of Illinois, Urbana, Ill.	C. F. Scott, Sheffield Sci. School of Yale Univ.
1923, June 20-23	Cornell University, Ithaca, N. Y.	C. F. Scott, Sheffield Sci. School of Yale Univ.
1924, June 25-28	University of Colorado, Boulder, Colo.	P. F. Walker, Univ. of Kans.
1925, June 16-20	Union College, Schenectady, N. Y.	A. A. Potter, Purdue Univ.
1926, June 16-18	State University of Iowa, Iowa City, Ia.	G. B. Pegram, Columbia Univ.
1927, June 27-30	University of Maine, Orono, Maine.	O. M. Leland, Univ. of Minn.
1928, June 26-29	University of North Carolina, Chapel Hill, N. C.	R. L. Sackett, Penna. State College.
1929, June 19-21	The Ohio State University, Columbus, Ohio.	Dexter S. Kimball, Cornell University.
1930, June 26-28	Ecole Polytechnique, McGill University, Montreal, Canada.	R. I. Rees, American T. & T. Co.
1931, June 17-19	Purdue University, Lafayette, Ind.	H. S. Boardman, University of Maine.
1932, June 29, 30-July 1	Oregon State College, Corvallis, Ore.	H. S. Evans, University of Colorado.
1933, June 27-30	Stevens Hotel, Chicago. Ill.	R. A. Seaton, Kansas State College.

* Joint Meeting with the British Educational Mission to the United States. The meeting was called at the request of the Committee on International Relations of the American Council on Education.

SUMMER SCHOOLS FOR ENGINEERING TEACHERS.

HARRY P. HAMMOND, *Director.*

1927—Engineering Mechanics, Cornell University.
1927—Engineering Mechanics, University of Wisconsin.
1928—Electrical Engineering, University of Pittsburgh, and Westinghouse E. & M. Company.
1928—Physics, Massachusetts Institute of Technology.
1929—Mechanical Engineering, Purdue University.
1930—Civil Engineering, Yale University.
1930—Engineering Drawing and Descriptive Geometry, Carnegie Institute of Technology.
1931—Chemical Engineering, University of Michigan.
1931—Mathematics, University of Minnesota.
1932—Economics, Stevens Institute of Technology.
1932—English, The Ohio State University.
1933—Mining and Metallurgy, University of Wisconsin.
1933—Conference of Administrative Officers, University of Wisconsin.

PAST OFFICERS

Special Committee for Division E, Engineering Education, World's Engineering Congress, 1893.

IRA O. BAKER,* Chairman, HENRY T. EDDY,* Vice-Chairman,
WM. R. HOAG, Secretary, C. FRANK ALLEN, Sec'y, *pro tem.*,
MORTIMER E. COOLEY, SAMUEL W. STRATTON,*
STORM BULL.*

PRESIDENTS

DE VOLSON WOOD,* 1893–4, WM. T. MAGRUDER, 1912–13,
GEORGE F. SWAIN,* 1894–5, G. C. ANTHONY, 1913–14,
M. MERRIMAN,* 1895–6, ANSON MARSTON, 1914–15,
HENRY T. EDDY,* 1896–7, HENRY S. JACOBY, 1915–16,
JOHN B. JOHNSON,* 1897–8, GEORGE R. CHATBURN, 1916–17,
T. C. MENDENHALL,* 1898–9, MILO S. KETCHUM, 1917–18,
IRA O. BAKER,* 1899–1900, JOHN F. HAYFORD,* 1918–19,
FRANK O. MARVIN,* 1900–1, A. M. GREENE, JR., 1919–20,
ROBERT FLETCHER, 1901–2, MORTIMER E. COOLEY, 1920–21,
CALVIN M. WOODWARD,* 1902–3, C. F. SCOTT, 1921–22, 1922–23,
C. FRANK ALLEN, 1903–4, P. F. WALKER,* 1923–24,
FRED W. McNAIR,* 1904–5, A. A. POTTER, 1924–25,
CHARLES L. CRANDALL,* 1905–6, G. B. PEGRAM, 1925–26,
DUGALD C. JACKSON, 1906–7, O. M. LELAND, 1926–27,
CHARLES S. HOWE, 1907–8, R. L. SACKETT, 1927–28,
FRED. E. TURNEAURE, 1908–9, D. S. KIMBALL, 1928–29,
HENRY S. MUNROE, 1909–10, R. I. REES, 1929–30,
ARTHUR N. TALBOT, 1910–11, H. S. BOARDMAN, 1930–31,
WM. G. RAYMOND,* 1911–12, H. S. EVANS, 1931–32,
R. A. SEATON, 1932–33.

VICE-PRESIDENTS

SAMUEL B. CHRISTY,* GEORGE F. SWAIN,* 1893–4,
ROBERT H. THURSTON,* FRANK O. MARVIN,* 1894–5,
FRANK O. MARVIN,* CADY STALEY, 1895–6,
JOHN GALBRAITH,* JOHN M. ORDWAY, 1896–7,
THOMAS C. MENDENHALL,* HARRY W. TYLER, 1897–8,
C. FRANK ALLEN, HENRY W. SPANGLER,* 1898–9,
ROBERT FLETCHER, CHARLES D. MARX, 1899–1900,
THOMAS GRAY,* ALBERT KINGSBURY, 1900–1,
STORM BULL,* CALVIN M. WOODWARD,* 1901–2,
JOHN J. FLATHER,* FRED W. McNAIR,* 1902–3,

* Deceased.

CHARLES L. CRANDALL,* JAMES C. NAGLE, 1903–4,
CLEMENT R. JONES, ELWOOD MEAD, 1904–5,
WILLIAM T. MAGRUDER, JOHN P. JACKSON, 1905–6,
R. C. CARPENTER, CHARLES S. HOWE, 1906–7,
CLARENCE A. WALDO, WILLIAM G. RAYMOND,* 1907–8,
MORTIMER E. COOLEY, OLIN H. LANDRETH, 1908–9,
ARTHUR N. TALBOT, ARTHUR L. WILLISTON, 1909–10,
MILO S. KETCHUM, WILLIAM KENT, 1910–11,
G. C. ANTHONY, F. B. GILBRETH,* 1911–12,
L. S. MARKS, F. W. SPERR,* 1912–13.
H. S. JACOBY, D. C. HUMPHREYS, 1913–14,
H. H. NORRIS, C. RUSS RICHARDS, 1914–15,
G. R. CHATBURN, F. H. CONSTANT, 1915–16,
HOLLIS GODFREY, WM. M. THORNTON, 1916–17,
JOHN F. HAYFORD,* IRA N. HOLLIS, 1917–18,
JOHN T. FAIG, E. R. MAURER, 1918–19,
A. A. POTTER, F. P. McKIBBEN, 1919–20,
T. U. TAYLOR, H. S. EVANS, 1920–21,
H. J. HUGHES,* E. J. McCAUSTLAND, 1921–22,
D. S. KIMBALL, F. G. HIGBEE, 1922–23,
H. S. BOARDMAN, O. J. FERGUSON, 1923–24,
R. S. KING, G. B. PEGRAM, 1924–25,
H. V. CARPENTER, F. P. McKIBBEN, 1925–26,
H. W. TYLER, W. S. RODMAN, 1926–27,
C. E. MAGNUSSON, THOS. E. FRENCH, 1927–28,
C. C. WILLIAMS, G. M. BRAUNE,* 1928–29,
E. A. HITCHCOCK, ED. BENNETT, 1929–30,
C. FRANCIS HARDING, R. A. SEATON, 1930–31,
D. S. ANDERSON, H. H. JORDAN, 1931–32,
PAUL CLOKE, H. S. ROGERS, 1932–33.

TREASURERS

STORM BULL,* 1893–5, ARTHUR N. TALBOT, 1902–4,
JOHN J. FLATHER,* 1895–9, FRED. P. SPALDING,* 1904–6,
CLARENCE A. WALDO, 1899–1902, ANSON MARSTON, 1906–7,
W. O. WILEY, 1907–.

SECRETARIES

JOHN B. JOHNSON,* 1893–5, CLARENCE A. WALDO, 1902–4,
C. FRANK ALLEN, 1895–7, MILO S. KETCHUM, 1904–6,
ALBERT KINGSBURY, 1897–9, WILLIAM T. MAGRUDER, 1906–7,
EDGAR MARBURG,* 1899–1900, ARTHUR L. WILLISTON, 1907–9,
HENRY S. JACOBY, 1900–2, HENRY H. NORRIS, 1909–14,
F. L. BISHOP, 1914–.

ASSISTANT SECRETARIES

L. H. HARRIS,* 1914–8,
NELL McKENRY, 1918–.

* Deceased.

ELECTIVE MEMBERS OF PREVIOUS COUNCILS.

Terms of Office Expired in 1894.

M. E. Cooley, H. T. Eddy, W. F. M. Goss,*
W. R. Hoag, S. W. Robinson,* H. W. Spangler.
R. H. Thurston.*

Terms of Office Expired in 1895.

H. T. Bovey,* W. H. Burr, O. H. Landreth,*
Mansfield Merriman,* W. G. Raymond,* G. F. Swain,*
De Volson Wood.*

Terms of Office Expired in 1896.

I. O. Baker,* Storm Bull,* S. B. Christy,*
John Galbraith,* J. B. Johnson,* F. O. Marvin,*
C. D. Marx.

Terms of Office Expired in 1897.

H. T. Eddy,* J. J. Flather,* J. P. Jackson,
Albert Kingsbury, L. S. Randolph, S. W. Robinson,*
R. H. Thurston.*

Terms of Office Expired in 1898.

C. F. Allen, C. L. Mees, Mansfield Merriman,*
J. M. Ordway, W. G. Raymond,* Cady Staley,
R. S. Woodward.*

Terms of Office Expired in 1899.

Arthur Beardsley, Robert Fletcher, John Galbraith,*
William Kent,* T. C. Mendenhall,* W. H. Schuerman,*
M. E. Wadsworth.*

Terms of Office Expired in 1900.

Storm Bull,* L. G. Carpenter, Albert Kingsbury,
F. O. Marvin,* R. B. Owens, R. L. Sackett,
R. H. Thurston.*

Terms of Office Expired in 1901.

T. N. Drown,* M. A. Howe, I. N. Hollis,*
Gaetano Lanza, P. C. Ricketts, R. G. Thomas,*
C. M. Woodward,

Terms of Office Expired in 1902.

Brown Ayres, G. W. Bissell, J. J. Flather,*
W. T. Magruder, F. W. McNair,* J. M. Porter,
A. J. Wood.*

Terms of Office Expired in 1903.

C. F. Allen, D. C. Jackson, N. C. Ricker,
J. P. Brooks, Edgar Marburg,* A. L. Williston,
J. C. Nagle.

* Deceased.

Terms of Office Expired in 1904.

W. F. M. Goss, Thomas Gray,* D. C. Humphreys,
O. H. Landreth,* W. G. Raymond,* L. E. Reber,
L. S. Randolph.

Terms of Office Expired in 1905.

Wm. Esty,* L. J. Johnson, W. M. Towle,
H. S. Jacoby, Elwood Mead, J. L. Van Ornum,
Edward Orton, Jr.*

Terms of Office Expired in 1906.

John Galbraith,* Charles S. Howe, Walter M. Riggs,*
Frederick P. Spalding,* Henry W. Spangler,* Fred. E. Turneaure,
Herman K. Vedder.

Terms of Office Expired in 1907.

Thomas Gray,* James C. Nagle, William G. Raymond,*
Louis E. Reber, Arthur N. Talbot, Clarence A. Waldo,
Arthur S. Woodward.*

Terms of Office Expired in 1908.

Victor C. Alderson, Arthur H. Ford,* H. P. Talbot,*
Francis C. Caldwell, Henry S. Munroe, A. L. Williston,
Frederick W. Sperr.*

Terms of Office Expired in 1909.

Charles F. Burgess,* John F. Hayford,* Thomas W. Palmer,
Arthur M. Greene, Jr., Milo S. Ketchum, Joseph A. Thaler,
Henry H. Norris.

Terms of Office Expired in 1910.

Fred W. Atkinson, Walter B. Russell, William S. Franklin,*
Mortimer E. Cooley, William Kent,* Charles F. Scott,
Harold B. Smith.*

Terms of Office Expired in 1911.

Lester P. Breckenridge, Lewis J. Johnson, William G. Raymond,*
Thomas Gray,* William T. Magruder, Herman Schneider,
Clarence A. Waldo.

Terms of Office Expired in 1912.

Frederick A. Goetze,* H. Wade Hibbard, Edw. R. Maurer,
Frank H. Constant, John H. Leete,* John C. Ostrup,
Chas. Russ Richards.

Terms of Office Expired in 1913.

C. H. Benjamin,* E. E. Brydone-Jack, John F. Hayford,*
G. W. Bissell, W. H. Creighton, C. Russ Richards,
H. W. Tyler.

Terms of Office Expired in 1914.

J. E. Boyd, F. L. Emory, J. A. L. Waddell,
C. H. Crouch, C. E. Magnusson, A. J. Wood,*
H. H. Stoek.*

---

* Deceased.

Terms of Office Expired in 1915.

F. L. Bishop,
G. R. Chatburn,
O. P. Hood,
G. D. Shepardson,
F. P. McKibben,
W. B. Snow,
J. C. Tracy,

Terms of Office Expired in 1916.

John F. Hayford,*
M. S. Ketchum,
F. P. Spalding,
A. S. Langsdorf,
H. W. Tyler,
P. F. Walker,*
S. M. Woodward,

Terms of Office Expired in 1917.

R. H. Fernald,
A. H. Fuller,
A. M. Greene, Jr.,
E. V. Huntington,
V. Karapetoff.
D. C. Miller,
W. M. Riggs,*

Terms of Office Expired in 1918.

L. P. Breckenridge,
C. L. Cory,
C. H. Crouch,
O. P. Hood,
J. B. Whitehead.
F. P. McKibben,
G. D. Shepardson,

Terms of Office Expired in 1919.

A. H. Blanchard,
W. H. Browne, Jr.,
T. E. French,
R. W. Gay,
A. A. Potter.
F. G. Higbee,
E. J. McCaustland,

Terms of Office Expired in 1920.

T. U. Taylor,
K. G. Matheson,*
C. J. Tilden,
C. F. Scott,
L. M. Hoskins.
Frank Aydelotte,
W. E. Mott,

Terms of Office Expired in 1921.

Frederick Bass,
C. Francis Harding,
O. A. Leutwiler,
C. R. Mann,
W. J. Risley.
J. Raleigh Nelson,
F. L. Pryor,

Terms of Office Expired in 1922.

H. S. Boardman,
F. C. Bolton,
E. F. Coddington,
W. H. Kavanaugh,
W. S. Rodman.
C. C. More,
E. H. Rockwell,

Terms of Office Expired in 1923.

J. F. Merrill,
W. H. Timbie,
R. S. King,
J. H. Felgar,
J. C. Tracy.
L. L. Thurstone,
C. C. Williams,

Terms of Office Expired in 1924.

P. H. Daggett,
J. H. Dunlap,*
M. L. Enger,
J. C. L. Fish,
Morris Knowles.*
O. M. Leland,
F. E. Giesecke,

Terms of Office Expired in 1925.

M. W. Alexander,*
Edw. Bennett,
H. S. Evans,
E. A. Hitchcock,
G. C. Shaad.
H. J. Hughes,*
C. E. Magnusson,

---

* Deceased.

Terms of Office Expired in 1926.

D. S. Anderson, W. N. Barnard, Hugh Miller,
H. C. Berry, F. A. Fish, F. E. Seavey,*
E. J. Babcock.*

Terms of Office Expired in 1927.

W. E. Brooke, H. H. Jordan, E. B. Norris,
G. M. Butler, W. H. Kenerson, Harold Pender,
W. E. Wickenden.

Terms of Office Expired in 1928.

G. M. Braune,* W. C. Hoad, C. V. Mann,
B. M. Brigman, J. A. Hunter, C. H. Mitchell,
R. I. Rees.

Terms of Office Expired in 1929.

Sada A. Harburger, E. R. Hedrick, R. A. Seaton,
W. K. Hatt, J. J. Richey, J. W. Votey,*
S. M. Woodward.

Terms of Office Expired in 1930.

J. M. Bryant, S. S. Edmands, A. C. Lanier,
S. B. Earle, H. P. Hammond, C. M. McKergow.
D. B. Prentice.

Terms of Office Expired in 1931.

Paul Cloke, R. C. Disque, H. S. Rogers,
C. S. Coler, T. M. Focke, C. H. Warren,
J. J. Wilmore.

Terms of Office Expired in 1932.

I. C. Crawford, R. C. H. Heck, W. C. Huntington,
C. R. Dooley, H. H. Higbie, N. C. Riggs,
W. H. Timbie.

Terms of Office Expired in 1933.

L. E. Akeley, W. E. Farnham, T. J. Hoover,
R. E. Doherty, Augistin Frigon, F. V. Larkin,
J. E. McDaniel.

---

* Deceased.

CONSTITUTION.

ARTICLE I.

Name and Objects.

1. The name of this organization shall be the Society for the Promotion of Engineering Education.

2. The objects of this Society shall be the promotion of the highest ideals in the conduct of engineering education with respect to administration, curriculum, and teaching work, and the maintenance of a high professional standard among its members. The means to this end shall include educational research, the holding of meetings for the reading and the discussion of professional papers, and the publication of papers, discussions, and communications as may seem expedient.

ARTICLE II.

Membership.

Membership in the Society shall be of two general classes, Institutional and Individual.

Institutional members shall be educational institutions giving instruction in engineering. They shall be represented at all meetings of the Society or its divisions by regularly appointed delegates, one for each institutional member concerned.

Individual membership shall be of two classes, Active and Honorary. It shall comprise those persons who occupy or have occupied responsible positions in the work of engineering instruction, engineering practitioners, and other persons interested in engineering education.

Honorary members of the Society shall be such persons as may be recommended by unanimous vote of the Council in a letter ballot to be taken by the Secretary on the recommendation of twenty members of the Society in the manner provided hereinafter for proposals for individual members. Councilors not heard from within one month from the date of mailing the ballots will be counted in favor of the candidate. Honorary members shall not have the right to vote, shall not be eligible to office, and shall not be required to pay any fees or dues.

A member in good standing may become a life member, exempt from all future payments for dues, by a single payment of an amount equal to twenty times the annual dues. Such payments received by the Society shall be placed in a separate fund known as the Life Membership Fund. The interest earned on this fund shall be used as current income.

Individual members who have been in good standing for twenty-five

years, or more, and have retired from active professional life, or who have reached the age of 65 years, may be designated life members by a vote of the Council. Such members shall be exempt from the payment of dues thereafter.

The name of each candidate for active individual membership shall be proposed in writing to the Secretary by two members by whom the candidate is personally known. The proposal shall state the qualifications on which it is based. The name of a candidate for institutional membership shall be proposed by any member familiar with the work of the institution, on receipt of an application signed by a responsible officer thereof. An affirmative letter ballot of three-fourths of those members of the Council whose votes reach the Secretary within one month from the time of sending out the name of the candidate shall elect. Such letter ballot elections, occurring before February 1, shall be credited to the previous annual meeting and dues shall date from that time; elections occurring after February 1 shall be credited to the next annual meeting and the dues for the remainder of the year shall be one-half the annual dues.

ARTICLE III.

Dues.

1. There shall be no admission fee.

2. The annual dues shall be as stated in the By-Laws.

3. Dues are payable in advance at the time of the annual convention, and become delinquent at the end of the fiscal year for which they are assessed. Dues of new members are payable at the time of election, and become delinquent at the end of the fiscal year within which the members are elected.

4. Members in arrears one year shall be retained on the roll of the Society, but shall not receive publications until such time as all arrearages are paid. Members in arrears two years, and who have been duly notified by the Secretary, shall be dropped from the roll of the Society until such arrearages are paid. The Secretary shall notify all members in arrears one month previous to the close of the fiscal year. The fiscal year shall terminate on the thirtieth day of June.

ARTICLE IV.

Officers.

There shall be a President, two Vice-Presidents, a Secretary, and a Treasurer.

ARTICLE V.

Council.

1. The Council of the Society shall consist of twenty-one elective members, one third of whom shall retire annually, and the officers and the past presidents of the Society.

2. Any individual member of the Society shall be eligible to election to the Council, provided that not more than one elective member shall be from the faculty of any one institution.

ARTICLE VI.

Election of Officers and Members of the Council.

1. The officers and one third of the elective members of the Council shall be elected from the individual membership by ballot of the Society at the annual meeting.

2. There shall be a Nominating Committee consisting of the past presidents and the seven elective members of the Council retiring the following year, provided, however, that if, of this committee, the number in attendance at any meeting be less than five, the President shall make appointments so as to form a committee of five. The Committee shall report to the Society, at the business session provided therefor in the program, nominees for offices for the ensuing year, and for councilors for three years, and for less periods to fill vacancies that may occur.

ARTICLE VII.

Sections, Branches and Divisions.

1. A Section of the Society may be formed by members in two or more institutions, or by the members within a prescribed territory. A Section may be formed in any locality by a temporary organization which shall become a duly authorized section of the Society upon the approval of the Council. Sections may determine their own form of organization, but shall operate in conformity with the Constitution and the By-Laws of the Society and shall make a report of their proceedings to the Secretary of the Society. Sections shall be self-sustaining.

2. A Branch may be formed in any institution by a temporary organization which shall become a duly authorized Branch of the Society upon approval by the Executive Committee. Branches may determine their own form of organization, but shall operate in conformity with the Constitution and the By-Laws of the Society and shall make a report of their proceedings to the Secretary of the Society. Branches shall be self-sustaining.

Branches may coöperate with, or be a part of, other organizations having the same general purposes as this Society. The general purpose

of Branches is to extend the interest in, and the discussion of, questions relating to the teaching of engineering students and to bring to the Society at large, through its publications, the activities in all institutions that will be serviceable to the members of the Society.

3. Papers and discussions presented before Sections or Branches shall be the property of the Society and may be published as Society proceedings if authorized by the Publication Committee. Permission to publish elsewhere may be granted by the Council on condition that the Society receives proper credit.

4. When approved by the Council, Divisions may be formed by any group of members for the consideration of questions which relate particularly to that group.

ARTICLE VIII.

Meetings.

There shall be at least one annual meeting at such time and place as the Society at the preceding meeting, or the Council, if the Society does not act, may determine. There shall be sectional and branch meetings as the members of the different sections and branches may determine.

ARTICLE IX.

Publications.

1. The formal publications of the Society shall be a monthly journal to be published from September to June, inclusive, and a year book. The *Journal* shall contain the proceedings of the annual convention, and such other pertinent papers as may be submitted to, and approved by, the Publication Committee. A bound volume of the *Journal* for each current year shall constitute the *Proceedings* of the Society.

2. Each individual member, not in arrears, shall receive the *Journal*. Each institutional member shall be furnished with two copies of the *Journal* and two copies of the *Proceedings* of the Society.

Volumes of the *Proceedings* will be sold to members who subscribe for them at a cost to be determined each year by the Executive Committee. Subscriptions for the *Proceedings* must be received in advance by the Secretary on or before October 15 of each academic year.

ARTICLE X.

Amendments.

This Constitution may be amended by a two thirds vote of those present at any regular meeting of the Society, provided that all members have been notified of the proposed amendment by notices mailed from the Secretary's office at least 30 days prior to the regular meeting at

which action is had, and provided that the amendment shall have been approved by the Council by a two thirds vote of the members voting by letter or voice.

BY-LAWS OF THE SOCIETY AND RULES GOVERNING THE COUNCIL.

First. The officers of the Society shall constitute a committee to arrange for the annual meeting and to prepare a program for it.

Second. The President, the Secretary, and the Treasurer shall constitute an Executive Committee which shall have charge of all matters relating to the expenditure of money of the Society, the making of appropriations to committees and for other purposes, the making of contracts, the approval of bills, and also during the period between the meetings of the Council shall have charge of other business affairs of the Society.

Third. Expenditures of money may be made only in accordance with a definite appropriation or by direct vote of the Executive Committee.

Fourth. The annual dues shall be $5.00 for individual members, and $15.00 for institutional members.

Fifth. Reading of papers shall be limited to fifteen minutes each, or to such other time as may be designated by the Program Committee, and abstracts of papers of about three hundred words shall be printed when practicable, and distributed in advance to the members.

Sixth. The time occupied by each person in the extemporaneous discussion of any paper shall not exceed five minutes.

Seventh. The President, the Secretary, and the retiring president shall constitute a Publication Committee, of which the Secretary shall be chairman, to edit and to have charge of the publication of the monthly *Journal*.

Eighth. The subscription price of the *Journal* shall be three dollars per year, payable in advance.

Ninth. Additions or amendments may be made to these By-Laws at any regular meeting of the Society by a two thirds affirmative vote of the membership present at the business session, provided that the additions or amendments shall have been approved by a two thirds affirmative vote of the Council membership in attendance at the meeting, and shall have been recommended by that body for adoption.

G-E *Campus* News

CABLE-GRAM

It's not easy to tell you how, for many years, G-E chemists have been fiddling around with Glyptal (a synthetic resin of the alkyd type, made from phthalic anhydride and glycerine as base materials); or how, in studying high-molecular-weight organic compounds, they found that the flexibility of Glyptal could be varied by changing the length of the chains of the polyesters—ho, hum! But you may be interested in knowing that Glyptal compounds make excellent printing rolls, toothbrush handles, gaskets, ash trays, automobile finishes, and—what not.

These chemists not long ago turned out Glyptal-cloth insulation for cable. Soak it in oil; it won't care. Heat it to 200 degrees F., if you wish. Its resiliency is remarkable; its tenacity, terrific; its durability—it makes other insulations seem like wrapping paper.

"X-RAY AS YOU GO"

It's just the thing for customs inspectors, veterinarians, baggage men, and detectives—this new portable x-ray set announced not long ago by J. H. Clough, U. of Rochester, '16, new president of the G.E. X-Ray Corporation.

The set can be toted around easily, and operates, safely, from an ordinary light socket. It will make x-rays of the human body, industrial fluoroscopic examinations, and radiographs of locked trunks, suspicious packages, and the like. It is particularly adapted to making x-rays of animals and for use in cases where the machine must be moved to the patient. A layman can operate it easily and with safety.

It brings the x-ray within practicable reach of the veterinarian. The first set built was rushed from exhibition at Chicago to Belmont Park, and there used to inspect the right forefoot of one of the best-loved horses of the modern turf, which was on the point of being prematurely retired for a puzzling lameness. So simple and quiet was the operation of the x-ray that the horse was not in the least nervous. "Well, well, boys," neighed Equipoise, "I'm sure glad you came along."

99.9909% PERFECT

Soap that's "99.44 per cent pure" may be pretty good, for soap; but in the matter of reliable control of street lights—well, lend your ears.

Carrier current controls the street lighting in one district of Springfield, Mass. In the last year there have been but 32 failures (from all causes, lightning included) in 350,928 controller operations. That's within .0091 per cent of perfection.

Carrier current makes use of wires and transformers already installed, avoiding duplication and congestion of circuits. In Springfield, a 700-cycle current, transmitted for eight seconds, operates 481 controllers, turns on 675 lights. Used 30 seconds, it turns them off. A second frequency of 460 cycles is available to control off-peak water heaters and other devices. This is the only G-E installation of its kind—a temporary distinction, we hope.

C. E. Jennings, Ohio State, '12; F. M. Rives, U. of Texas, '23; and J. L. Woodworth, U. of Idaho, '24, were responsible for this job.

96-27FBI

GENERAL ELECTRIC

Something New!

The Olsen-Mohr Portable Brinell Hardness Tester

Where a light portable hardness tester is required for making the Standard Brinell test the machine shown is ideal. It can be used for testing heavy or inaccessible machinery, castings, wheels, axles, etc. or even rails laid in place.

Hardness tests up to a maximum pressure of 3,000 Kgs. can be made with the standard 10 mm. diameter hardened steel ball. Its accuracy is well within the requirements for this type of machine. Results obtained are comparable with those obtained through use of our Standard Brinell machine. It weighs only 22 pounds and can be readily handled by one operator.

It is simple in operation. The hardness tester is fastened upon the test piece the same as an ordinary clamp, by means of the adjustable screw shown. The load producer at the top as shown, may be reversed, so the ball points to the outside thus making it well adapted for testing large pieces by mounting on a drill spindle. Also interior surfaces can be readily tested with this device. Additional attachment can be secured for testing car wheel rims, also hand milling tool can be supplied. Write

TINIUS OLSEN TESTING MACHINE COMPANY

500 North Twelfth Street **Philadelphia, Pa.**

A Complete Plant Under One Roof

PRINTING ~ BINDING ~ ELECTROTYPING

PRINTERS OF

SCIENTIFIC AND TECHNICAL JOURNALS AND BOOKS

THESES AND DISSERTATIONS

WORKS IN FOREIGN LANGUAGES

Your Book, Journal or Thesis placed with us insures that the composition, proof-reading, electrotyping, presswork and binding, follow through in consecutive order in one plant —established fifty-seven years ago—and under the supervision of one management.

LANCASTER PRESS, INC.

LANCASTER, PENNA.

Established 1877

[*Printers of The Journal of Engineering Education*]

—for better work in course

—for greater success professionally

technical students need *specialized training in English*

PRACTICAL FORMS *in* EXPOSITION

A Manual Designed to Assist Technical Students with Papers, Letters, Reports, and Reading

will provide that training

THIS book is the work of HARLOW C. RICHARDSON, Assistant Professor of English in the University of Minnesota, and LUTHER N. BECKLUND, LEDRU O. GUTHRIE, and CLIFFORD I. HAGA, Instructors in the Department of English there.

It is a textbook for the required course in English for engineering students which meets their needs specifically. The outcome of four years of effort on the part of the authors, it has been so well planned and executed that it will become widely and rapidly popular. Students and teachers alike will enjoy using it.

With plentiful explanations, illustrations, and exercises it will train the student in the writing of all sorts of engineering reports and letters, teach him to explain processes, make definitions, classifications, analyses, and recommendations, and in general to use the English language correctly as an aid to professional success.

To be published in the spring

Though you may not teach English yourself, we should appreciate your bringing this book to the attention of those who do. Its consistent use will raise the level of class work in all subjects where technical writing is necessary.

THE MACMILLAN COMPANY *60 Fifth Avenue New York, N.Y.*